EPA Registration 70506-18 Vol.1



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

MAR 2 5 2005

Rebecca A. Clemmer United Phosphorus Inc 423 River View Plaza Trenton, NJ 08611

Subject:

Submission of Storage Stability and Corrosion Characteristics Study

Bifenthrin Technical Insecticide/Miticide

EPA Reg. No. 70506-18

Your Letter Dated: June 14, 2004

Dear Ms. Clemmer:

The data submitted corresponding to guideline reference 830.6317 (Storage stability) and 830.6320 (Corrosion Characteristics) are acceptable. The review has been inserted in the file for the subject product.

If you have any questions regarding this action, please contact BeWanda Alexander of my team at (703) 305-7460.

Sincerely,

George T. LaRocca

Product Manager (13)

Insecticide Branch

Registration Division (7505C)

DATE OUT: 17/MAR/2005

SUBJECT: PRODUCT CHEMISTRY REVIEW OF TGAI/MP [X] EP []

DP BARCODE No.: D312238 REG. No.: 70506-18

PRODUCT NAME: Bifenthrin Technical Insectcide/Miticide

2117103

COMPANY: United Phosphorous Incorporation

PCC: 128825; Decision No.: 352095

FROM: Shyam B. Mathur,

Team Leader Product Chemistry

Technical Review Branch/RD (7505C)

TO:

BeWanda Alexander/George Larocca, RM 13

Insecticide Branch/RD(7505C)

INTRODUCTION

The registrant has submitted the results of one year storage stability (830,6317) and corrosion characteristics (830,6320) studies for bifenthrin technical. The study results have been submitted under MRID No. 464142-01. The TRB has been asked to review the product chemistry data submitted.

SUMMARY OF FINDINGS

- 1. The subject product is Technical Bifenthrin containing bifenthrin as the active ingredient with product label claim of 99.4%.
- 2. The studies were performed at JAI Research Foundation, Valvada in India. The studies were conducted in accordance to Good Laboratory Practice Principles as published by OECD in 1998, No.1, [ENV/MC/CHEM(98)17].
- 3. The samples were stored in six commercial containers (Fibre board drum with double HDPE liner) at room temperature under warehouse conditions. One container was opened initially and one container was opened at each sampling intervals i.e., after 3, 6, 9 and 12 months of storage. The remaining containers were drawn after 18 months for final evaluations.

DP BARCODE No.: <u>D312238</u> REG. No.: <u>70506-18</u> PRODUCT NAME: <u>Bifenthrin</u> Technical Insectcide/Miticide

4. The test substance was evaluated with respect to the following tests:

Corrosion characteristics: Perforation, darkening, leaking or rust at the seam, appearance of the container (by visual- shape, crack, color)

Storage stability: Appearance, acidity, and AI content. The AI content was determined by HPLC/UV(254 nm).

- 5. There was no degradation or loss of bifenthrin was observed after 12 months of storage. Before storage (0 day), the AI content was 99.04% w/w. After storage at room temperature for a period of 3, 6, 9 and 12 months, the AI content was 98.99, 98.80, 98.75 and 98.64% w/w respectively.
- 6. There were no signs of corrosion characteristics. There were no perforation, leaking, rust, darkening, change in the shape or cracks observed on the container of the bifenthrin technical at zero day as well as after 3, 6, 9 and 12 months.

CONCLUSIONS

The TRB has reviewed the product chemistry data submitted for the Bifenthrin technical and has concluded that:

The data submitted for the guideline 830.6317 (one year storage stability) and 830.6320 (corrosion characteristics) satisfy the data requirements of 40CFR§158.190 and are acceptable.

DP BARCODE No.: <u>D312238</u> REG. No.: <u>70506-18</u> PRODUCT NAME: <u>Bifenthrin</u> <u>Technical Insectcide/Miticide</u>

HPLC parameters and Instrument

Instrument: HPLC (Shimadzu, LC-10 AT Pump, SPD-10A UV-VIS detector

with CLASS 10A software).

Detector: operating at 254 nm

Column: ODS, 5 µm, 25 mm x 4.6 mm id

Guard column: Alltech, Allguard, C18, 5 µm, 7.5 x 4.6 mm id

Mobile phase: Acetonitrile (80) : water (20)

Flow rate: 2.0 ml/min

Samples injected: 0.5 mg/ml oryzalin and 0.05% (v/v)

dimethlphthalate (IS) in acetonitrile:water (1:1, v.v).

Volume injected: 20 µL



423 Riverview Plaza Trenton, NJ 08611 (609) 392-8200 x 18 (phone) (609) 392-0808 (fax) Rebecca A. Clemmer Regulatory Affairs Manager

June 9, 2004

Mr. George LaRocca (PM 13)
Document Processing Desk
Office of Pesticide Programs (7504C)
U.S. Environmental Protections Agency
1921 Jefferson Davis Highway
Arlington, VA 22202

Re: Submission of Study

Bifenthrin Technical (EPA Reg. No. 70506-18)

Dear Mr. LaRocca:

Enclosed please find a storage stability and corrosion characteristics study, submitted in support of the registration of UPI Bifenthrin Technical:

46414201

Storage Stability and Corrosion Characteristics of Bifenthrin Technical (Interim Report – 12 Months). United Phosphorus, Inc., Study 4210, May 29, 2004. 113 p.

Enclosed you will find three copies of the study. This letter will serve as the transmittal document.

Please contact me if you have any questions.

reca a. Clemmer

Very truly yours,

Rebecca A. Clemmer

rclemmer@upi-usa.com

File: RAC-2004-040
Bifenthrin Technical Registration File

A. Tillman J. Pritchard CC:



423 Riverview Plaza Trenton, NJ 08611 (609) 392-8200 x 18 (phone) (609) 392-0808 (fax) Rebecca A. Clemmer Regulatory Affairs Manager

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Rebecca A. Clemmer relemmer@upi-usa.com

RAC-2004-040
Bifenthrin Technical Registration File

A. Tillman J. Pritchard



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

December 1, 2004

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

UNITED PHOSPHORUS INC 423 RIVERVIEW PLAZA TRENTON, NJ 08611

Report of Analysis for Compliance with PR Notice 86-5

Thank you for your submittal of 01-DEC-04. Our staff has completed a preliminary analysis of the material. The results are provided as follows:

Your submittal was found to be in full compliance with the standards for submission of data contained in PR Notice 86-5. A copy of your bibliography is enclosed, annotated with Master Record ID's (MRIDs) assigned to each document submitted. Please use these numbers in all future references to these documents. Thank you for your cooperation. If you have any questions concerning this data submission, please raise them with the cognizant Product Manager, to whom the data have been released.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

Office of Pesticide Programs Registration Division (7505C)

Date: August 2, 2004

INSECTICIDE BRANCH

Fax

Name: Rebecca Clemmer

Organization: UPI

Fax Number: 609-392-0808 Phone Number: 609-392-8200

From: George T. LaRocca,

Product Manager (13)

Phone Number:

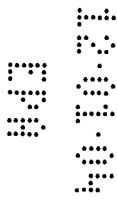
703/305-6100 703/605-1225

Fax Number: 703/60

Subject: Bifenthrin Technical/70506-18

Cover pius_3__ Pages:

Comments: See attached letter regarding data submittal deficiency. You can fax the omitted page to my attention at 703-605-1225.





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

June 16, 2004

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

UNITED PHOSPHORUS INC 423 RIVERVIEW PLAZA TRENTON, NJ 08611

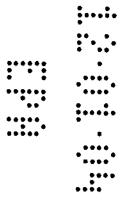
Report of Analysis for Compliance with PR Notice 86-5

Thank you for your submittal of 14-JUN-04. Our staff has completed a preliminary analysis of the material. The results are provided as follows:

We are unable to accept your data submittal for further processing and review, because of the significant deficiencies noted below. It is being returned to you for correction. If deficiencies were found which apply to your overall submission, they are described immediately following this paragraph. If problems are found with individual studes, they are described below linked to the study identifier found on the enclosed copy of your bibliography.

Rejected Study [01]:

* Judging from the pagination of the study, page 81 was omitted from the submitted copy.





423 Riverview Plaza Trenton, NJ 08611 (609) 392-8200 x 18 (phone) (609) 392-0808 (fax)

Rebecca A. Clemmer Regulatory Affairs Manager

June 9, 2004

Mr. George LaRocca (PM 13) Document Processing Desk Office of Pesticide Programs (7504C) U.S. Environmental Protections Agency 1921 Jefferson Davis Highway Arlington, VA 22202

Re:

Submission of Study

Bifenthrin Technical (EPA Reg. No. 70506-18)

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Enclosed you will find three copies of the study. This letter will serve as the transmittal document.

Please contact me if you have any questions.

Very truly yours,

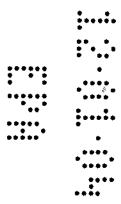
Rebecca A. Clemmer

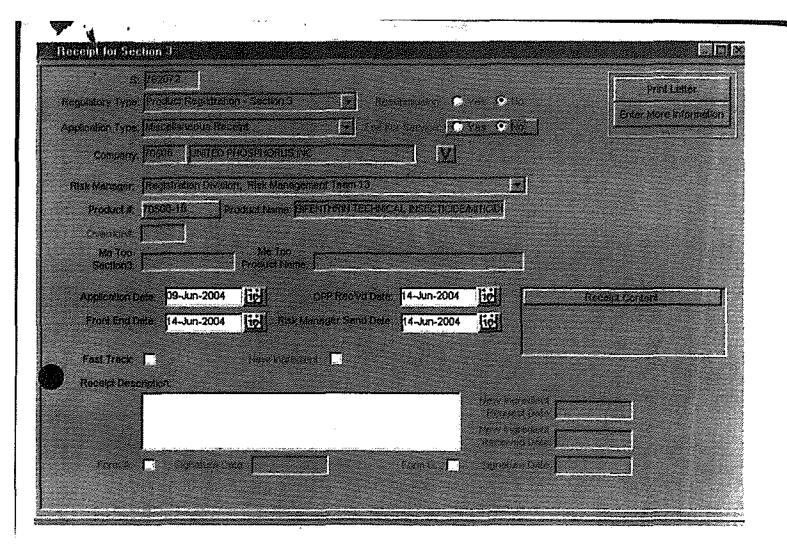
rclemmer@upi-usa.com

File:

RAC-2004-040 Bifenthrin Technical Registration File

A. Tillman J. Pritchard CC:







UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

June 16, 2004

OFFICE OF TREVENTION, PESTICIDES AND TOMIC SUBSTANCES

UNITED PHOSPHOPUS INC 423 RIVERVIEW P. AZA TRENTON, NJ 08611

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••••



423 Riverview Plaza Trenton, NJ 08611 (609) 392-8200 x 18 (phone) (609) 392-0808 (fax) Rebecca A. Clemmer Regulatory Affairs Manager

June 9, 2004

Mr. George LaRocca (PM 13)
Document Processing Desk
Office of Pesticide Programs (7504C)
U.S. Environmental Protections Agency
1921 Jefferson Davis Highway
Arlington, VA 22202

Re:

Submission of Study

Bifenthrin Technical (EPA Reg. No. 70506-18)

Dear Mr. LaRocca:

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Please contact me if you have any questions.

Especia a Clemmer

Very truly yours,

Rebecca A. Clemmer

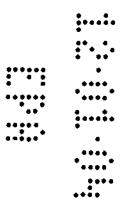
relemmer@upi-usa.com

File:

RAC-2004-040 Bifenthrin Technical Registration File

CC:

A. Tillman J. Pritchard



6093920808



United Phosphorus, Inc.

423 Riverview Plaza Trenton, NJ 08611

Phone: (609) 392-8200, extension 18

Fax: (609) 392-0808

FAX

DATE:

November 5, 2004

TO:

Mr. George LaRocca

FROM:

Rebecca A. Clemmer, Regulatory Affilirs Manager

SUBJECT: Replacement of missing study page

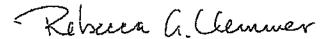
MESSAGE:

Dear Mr. LaRocca:

Attached please find page 81 of the study Storage Stability and corrosion Characteristics of Bifer thrin Technical (12 Months), Jai Research Foundation Study 4210, May 29, 2004

which you indicated was missing from the Agency's copy.

Please contact me if you have any questions.





423 Riverview Plaza Trenton, NJ 08611 (609) 392-8200 x 18 (phone) (609) 392-0808 (fax)

Rebecca A. Clemmer Regulatory Affairs Manager

June 9, 2004

Mr. George LaRocca (PM 13) **Document Processing Desk** Office of Pesticide Programs (7504C) U.S. Environmental Protections Agency 1921 Jefferson Davis Highway Arlington, VA 22202

Re:

Submission of Study

Bifenthrin Technical (EPA Reg. No. 70506-18)

Dear Mr. LaRocca:

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Please contact me if you have any questions.

Very truly yours,

Rebecca A. Clemmer

rclemmer@upi-usa.com

File:

RAC-2004-040 Bifenthrin Technical Registration File

A. Tillman J. Pritchard CC:





423 Riverview Piaza Trenton, NJ 08611 (609) 392-8200 (phone) (609) 392-0808 (fax) Ann M. Tillman Technical Director

June 28, 2004

Mr. George LaRocca, PM 13
Office of Pesticide Programs (7504C)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Dear Mr. LaRocca:

This letter is to request Gold Seal Letters (3 copies each) for the following products:

PRODUCT	EPA REG. NO.
Tengard MUP Insecticide	70506-5
Tengard SFR One-Shot Insecticide	70506-6
Tengard HG Insecticide	70506-7
Perm-Up 3.2 EC Insecticide	3 0506-9
Cypermethrin Technical Insecticide	70506-10
Bifenthrin Technical Insecticide	70506-18
Cypermethrin 2.0 EC Insecticide	70506-19
Up-Cyde 2.5 EC Insecticide	70506-20
Cypermethrin 2.5 EC	70506-21
Bifenthrin SC Lawn & Greenhouse Insecticide	70506-22
UP-Star SC Lawn and Nursery Insecticide	70506-23
UP-Star Gold Insecticide	70506-24

Please send them to my attention at the above address.

Sincerely,

Kehecea a, Clemme

Rebecca A. Clemmer Regulatory Manager Phone: 609-392-8200 x 18

e-mail relemmer@upi-usa.com



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

November 1, 2004

I, George Larocca, insecticide Branch, Registration Division, Office of Pesticide Programs, Office of Prevention, Pesticides and Toxic Substances, United States Environmental Protection Agency ("EPA"), certify that the pesticide product (s) listed below is, as of the date of this letter, a registered product under the Federal Insecticide, Fungicide, and Rodenticide Act (FiFRA), as amended, and that as such, the product(s) may be sold and marketed in the United States of America as authorized and limited by FiFRA. A true and correct copy of the product label approved by EPA is attached to accompany this letter.

Registration of this product(s) with EPA also denotes that the registrant listed below is responsible for ensuring full compliance with all the laws of the United States of America, or governing jurisdiction, regarding the sale, storage and/or disposal of the product(s). Further, the recipient of this letter is on notice that the referenced registration and/or the accompanying label may change subsequent to the date of this letter. EPA assumes no responsibility to notify the recipient of this letter of any change in the status of the registration(s) and/or the product label for the product(s) listed below.

EPA has issued registration numbers for the product(s) listed below to:

United Phosphorus Inc 423 Riverview Piaza Trenton, NJ 08611

EPA Registration Number: Name of Product:

70506-18
Bifenthrin Technical Insecticide/Miticide

George T. Larocca

Product Manager (03; 13)

insecticide Branch

Registration Division (7505C)



BIFENTHRIN Technical

Insecticide/Miticide

FOR FORMULATION USE ONLY

ACTIVE INGREDIENT:	
Bifenthrin: [2-methyl[1,1'-biphenyl]-3-yl) methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)	1
-2,2-dimethylcyclopropanecarboxylate*	99.4%
OTHER INGREDIENTS	0.6%
TOTAL	100.0%
*Cis Isomers 97% mlnimum, trans Isomers 3% maximum.	

WARNING

Have the produ	FIRST AID ct container or label with you when calling a polson control center or doctor, or going
If awallowed	 Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give give anything by mouth to an unconscious person.
if tnhaled	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
lf on skin or clothing	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes Call a poison control center or doctor for treatment advice.
If in eyes	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

FOR EMERGENCY MEDICAL ASSISTANCE, CALL
THE NATIONAL PESTICIDE INFORMATION CENTER 1-800-858-7378

United Phosphorus Inc. 423 Riverview Plaza Trenton, NJ 08611 NET CONTENTS: EPA Reg. No. 70506-18 EPA Est. No. 41876 • IY- 1

NOT REVIEWED
In accordance with PR Notice 82-2
based on draft labeling dated

7/24/04



PRECAUTIONARY STATEMENTS
Hazards to Humans (and Domestic Animals)

Warning: May be fatal if swallowed. Harmful if inhaled or absorbed through the skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Causes moderate eye irritation. Avoid breathing dust. Avoid contact with skin, eyes, or clothing. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Environmental Hazerds

This pesticide is toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless in accordence with the requirements of a National Pollutant Discharge Eliminations System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the Environmental Protection Agency.

Physical/Chemical Hazards

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

it is a violation of Federal law to use this product in a manner inconsistent with its labeling.

This material requires further mixing before use

Only for formulation into an insecticide/miticide for

(1) The following uses:

Terrestrial Food/Feed Crops: Sweet Corn, Succulent Peas and Beans, Head and Stern Brassica Vegetables, Globe Artichoke, Cucurbits, Herbs, Bananas (Import only), Legume Vegetablas, Cotton, Field Corn (Grain and Silage), Popcorn, Field Corn Grown for Seed, Hops, Rapeseed, Canola, Crambe, Strawberries, Caneberries, Lettuce (head), Pears, Citrus, Tomato, Peppers (bell and non-bell), Eggplant, Spinach, Tree Nuts, Grapes

Terrestriai Non-Food:

Termiticide and Soil Contact Nonfumigation Treatment

Wood Treatment and Protection

Outdoor Insect Control

Omamental plants, trees, shrubs, and vines (woody)

Residential Lawns

indoor insect Control

Greenhouse Grown Ornamental Trees, Shrubs, Plants, Flowers

Non-bearing Fruit and Nut Trees

Non-Food/Feed Areas: May be used to manufacture end-use products for use as a spot or crack and crevice treatment in non-food areas. Similar areas where insects hide or through which insects may enter can be treated. Examples of non-food areas include: garbege rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boller rooms, garages, mop closets, and storage (after canning and bottling).

Food/Feed Areas: May not be used to manufacture products for use in food/feed areas. Do not use in food areas of food handling establishments, restaurants, or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed or facility is in operation. Serving areas are areas where prepared food ere served such as dining rooms but excluding areas where foods may be prepared or held. In the home all food processing surfaces and utensits should be covered during treatment or thoroughly washed before use. Exposed foods should be covered or removed. Examples of food areas are areas for receiving, siorage/packing (canning, bottling, wrapping, boxing), preparing, edible wastes, storage and enclosed processing systems (milis, dairles, edible oils, syrups). Serving areas (when food is exposed and facility is in operation) also would be considered a food area.

- (2) Uses for which U.S. EPA has accepted the required data and/or citation of data that the formulator has submitted in support of registration; and
- (3) Uses for experimental purposes that are in compilance with U.S. EPA requirements.

Formulators using this product are responsible for obtaining U.S. EPA registration for their formulated product which may be labeled for the use patterns as found listed on this label.

Storage and Disposal

Do not contaminate water, food, or feed by storage and disposal.

PESTICIDE STORAGE

Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

In case of spill, avoid contact, isolate area, and keep out animals and unprotected persons. Confine spills.

PESTICIDE DISPOSAL

Pesticide wastes are toxic. Do not contaminate water, food or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation fo Federal law. Dispose of excess waste or pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL

Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration, if allowed by State and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.

FOR CHEMICAL EMERGENCY : Spill, leak, fire, exposure, or accident, call CHEMITREC 1-800-424-9300

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

United Phosphorus, Inc. warrants that at the time of delivery, this product will conform to its chemical description on the label, that it will pass without objection in the trade under the contract description, that seller will convey title hereto, and that such product will be delivered free from any lawful security interest, lien or encumbrance.

This is the only warranty made on this product. UNITED PHOSPHORUS, INC. EXPRESSLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND, EXCEPT AS SET FORTH IN THE ABOVE PARAGRAPH, ANY OTHER EXPRESS OR IMPLIED WARRANTIES. BUYER ACKNOWLEDGES THE USE OF ITS OWN INDEPENDENT SKILL AND EXPERTISE IN THE SELECTION AND USE OF THE PRODUCT AND DOES NOT RELY ON ANY ORAL OR WRITTEN STATEMENTS OR REPRESENTATIONS.

EPA Approved. t/t2/2004



423 Riverview Plaza Trenton, NJ 08611 (609) 392-8200 (phone) (609) 392-0808 (fax)

Ann M. Tiliman Technical Director

June 28, 2004

Mr. George LaRocca, PM 13
Office of Pesticide Programs (7504C)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall 2
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Arlington, VA 22202

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Sincerely,

Rebecca A. Clemmer

Regulatory Manager Phone: 609-392-8200 x 18

e-mail relemmer@upi-usa.com



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIOES AND TOXIC SUBSTANCES

August 30, 2004

I, George Larocca, Insecticide Branch, Registration Division, Office of Pesticide Programs, Office of Prevention, Pesticides and Toxic Substances, United States Environmental Protection Agency ("EPA"), certify that the pesticide product (s) listed below is, as of the date of this letter, a registered product under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, and that as such, the product(s) may be sold and marketed in the United States of America as authorized and limited by FIFRA. A Irue and correct copy of the product label approved by EPA is attached to accompany this letter.

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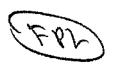
United Phosphorus Inc 423 Riverview Plaza Trenton, NJ 08611

EPA Registration Number: Name of Product:

70506-18
Bifenthrin Technical Insecticide/Miticide



George T. Larocca Product Manager (03; 13) Insecticide Branch Registration Division (7505C)





423 Riverview Plaza Trenton, NJ 08611 (609) 392-8200 x 18 (phone) (609) 392-0808 (fax) Rebecca A. Clemmer Regulatory Affairs Manager

July 27, 2004

Mr. George LaRocca (PM 13)
Document Processing Desk (Final Printed Labeling)
Office of Pesticide Programs (7504C)
U.S. Environmental Protections Agency
Ariel Rios Building
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

Re: Final Printed Label

Bifenthrin Technical Insecticide/Miticide (EPA Reg. No. 70506-18)

Dear Mr. LaRocca:

Enclosed for your files please find 5 copies of final printed labeling for the subject product. It incorporates changes approved by the Agency in January 2004. Because of the size and shape of the actual label, it has been cut to fit onto 8 ½ x 11" paper.

Please contact me if you have any questions.

Very truly yours,

Rebecca A. Clemmer

rclemmer@upi-usa.com

Instructions on reverse before completing form			Form				-0060, Approval expires 5-31-98
Unite	d States		Ļ		Registrat		OPP identifier Number
SEPA Environmental I	Protection Ag	jency	<u> </u>		Amendme	ent	274811
Washington, DC 20460			<u> </u>		Other 		
	cation for Pe						
1. Company/Product Number 70506-18		G. LaRo	Product Man	egar	7	3. Pro	posed Classification
4. Company/Product (Name)		PM#			 	X	None Restricted
United Phosphorus, Inc/Bifenthrin Technical 5. Name and Address of Applicant (Include ZIP Code)							FIFRA Section 3(c)(3)
United Phosphorus, Inc. 423 Riverview Plaza		(b)(l), m; to:	y product is s	s Junija	ar or identic	ai in co	mposition and labeling
Trenton, NJ 08611		EPA Re	No.				
Check if this is a new address	-	Product	Name _				
	Secti	on - II					
Amendment Explain below		X	inai printed i	iabel	\$		
Resubmission in response to Agency letter dated	······		Me Too" App	olicat	ion		
Notification - Explain below)ther Expla	in b	slow		•
Explanation: Use additional page(s) if necessary. (For Submission of final printed labels.	Section I and Se	ction ii.)					
	Sect	ion III	 				
Material This Product Will be Packaged In:		*******					
Child-Resistant Packaging Unit Packaging Yes Yes	Į W	ater Sclubi 7 Yes	Packaging				pe of Container Metal
No No		No					Plastic
Certification must	No. per if	Yes		No	. per	-	Glass Paper
be submitted Unit Packaging wgt.		ckaga wgt			ntainer		Other (Specify)
3. Location of Net Contents Information	4. Size(s) Retail	i Containe	,	i			label directions
Label Container						On Labe On Labe	il eccompanying product
. Manner in Which Label is Affixed to Product	Lithograph				Other		
	Paper glue Stenciled	ed					
	Sect	ion IV					
Contact Person (Complete items directly below for ide	ntification of Indi	vidual to be	contacted,	if ne			
Name Rebecca A. Clemmer	Regulatory	Affairs Ma	neger			none No 92-8200	
Ceri I certify that the statements I have made on this form and a I acknowledge that any knowingly false or misteading state both under applicable law							Date Application Received
2. Signature	3. Title						(Stamped)
Kelsecca a. Clemmer	Regulatory	Affairs Ma	nager				• • • •
S. Typed Name	5. Osle						*
Rebecca A. Clemmer July 27, 2004			•				
EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolet	c.		White-	- EP/	A File Copy	(Origina	1) Yellow - Applicant Copy



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIOES AND TOXIC SUBSTANCES

JAN | 2 2004

United Phosphorus, Inc. c/o Ms. Elizabeth A. Brown, Ph.D. ChemReg International, LLC 1990 Old Bridge Road, Suite 201 Lake Ridge, VA 22192-2383

Dear Ms. Brown:

SUBJECT: Amendment Adding Food/Feed Uses to Label

Bifenthrin Technical Insecticide/Miticide

EPA Reg. No.: 70506-18

Your Resubmission, Sent by Email on January 9, 2004

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy of the label is enclosed for your records. Please submit two copies of your final printed labeling before you release the product for shipment.

If you have any questions regarding this action, please contact Susan Stanton of my team at (703) 305-5218.

Sincerely yours,

George T. LaRocca Product Manager (13)

Insecticide Branch

Registration Division (7505C)

usan L. Stanton, for

Enclosure

Bifenthrin Technical Insecticide/Mitlcide

FOR FORMULATION USE ONLY

ACTIVE INGREDIENT:

Bifenthrin: (2-methyi[1,1'-blphenyi]-3-yl) methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)
-2,2-dimethyicyclopropanecarboxyiate*
99.4%
OTHER INGREDIENTS

*Cis isomers 97% minimum, trans isomers 3% maximum.

KEEP OUT OF REACH OF CHILDREN WARNING

United Phosphorus inc. 423 Riverview Piaza Trenton, NJ 08611 EPA Reg. No. 70506-18 EPA Est. No.

ACCEPTED

JAN 12 2004

Under the Federal Inserticide, Fungicide, and Redenticide Act, as amended, for the posticide registered under EPA Reg. Ho. 70506-/8

	FIRST AID
Have the product conti treatment.	ainer or labei with you when cailing a poison control center or doctor, or going for
if swallowed	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow.
	 Do not induce vomiting unless told to do so by a poison control center or doctor.
	Do not give anything by mouth to an unconscious person.
if inhaied.	Move person to fresh air.
	if person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
	Call a poison control center or doctor for further treatment advice.
if on skin or clothing	Take off contaminated clothing.
-	Rinse skin Immediately with plenty of water for 15-20 minutes
	Call a poison control center or doctor for treatment advice.
If in eyes	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact ienses, if present, after the first 5 minutes, then continue rinsing eye.
	Cai; a poison control center or doctor for treatment advice.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL THE NATIONAL PESTICIDE INFORMATION CENTER 1-800-858-7378

PRECAUTIONARY STATEMENTS Hazards to Humans (and Domestic Animals) Warning

May be fatei if swallowed. Harmfui if inhaled or absorbed through the skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Causes moderate eye irritation. Avoid breathing dust. Avoid contact with skin, eyes, or clothing. Remove contaminated ciothing and wash before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Environmental Hazards

This pesticida is loxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless in accordance with the requirements of a National Poliutant Discharge Eliminations System (NPDES) permit and the permitting authority has

been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the Environmental Protection Agency.

Physical/Chemical Hazards

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

This material requires further mixing before use

Only for formulation into an insecticide/miticide for

(1) The following uses:

Terrestrial Food/Feed Crops: Sweet Corn, Succulent Peas and Beans, Head and Stem Brassica Vegetables, Globe Artichoke, Cucurbits, Herbs, Bananas (Import only), Legume Vegetables, Cotton, Field Corn (Grain and Silage), Popcorn, Field Corn Grown for Seed, Hops, , Rapeseed, Canola, Crambe, Strawberries, Caneberries, Lettuce (head), Pears, Citrus, Tomato, Peppars (bell and non-bell), Eggplant, Spinach, Tree Nuts, Grapes

Terrestrial Non-Food:

Termiticide and Soil Contact Nonfumigation Treatment
Wood Treatment and Projection
Outdoor Insect Control
Ornamental plants, trees, shrubs, and vines (woody)
Residential Lawns
Indoor Insect Control
Greenhouse Grown Ornamental Trees, Shrubs, Plants, Flowers
Non-bearing Fruit and Nut Trees

Non-Food/Feed Areas: May be used to manufacture end-use products for use as a spot or crack and cravice treatment in non-food areas. Similar areas where insects hide or through which insects may enter can be treated. Examples of non-food areas include: garbage rooms, tavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning and bottling).

Food/Feed Areas: May <u>not</u> be used to manufacture products for use in food/feed areas. Do not use in food areas of food handling establishments, restaurants, or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed or facility is in operation. Serving areas are areas where prepared food are served such as dining rooms but excluding areas where foods may be prepared or held. In the home all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed foods should be covered or removed. Examples of food areas are areas for receiving, storage/packing (canning, boitling, wrspping, boxing), preparing, edible wastes, storage and enclosed processing systems (mills, dairies, edible oils, syrups). Serving areas (when food is exposed and facility is in operation) also would be considered a food area.

- (2) Uses for which U.S. EPA has accepted the required data and/or citation of data that the formulator has submitted in support of registration; and
- (3) Uses for experimental purposes that are in compliance with U.S. EPA requirements.

Formulators using this product are responsible for obtaining U.S. EPA registration for their formulated product which may be labeled for the use patterns as found listed on this label.

Storage and Disposal

Do not contaminate water, food, or feed by storage and disposal.

PESTICIDE STORAGE

Keep out of reach of children and animais. Store in original containers only. Store in a cool, dry place and avoid excess heal. Carefully open containers. After partial use, replace lids and close lightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

in case of spill, avoid contact, isolate area, and keep out animals and unprotected persons. Confine spills.

PESTICIDE DISPOSAL

Pesticide wastes are toxic. Do not contaminate water, food or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation fo Federal iaw. Dispose of excess waste or pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL

Completely empty liner by shaking end tapping sides and bottom to loosen clinging particles. Emply residue into application equipment. Then dispose of liner in e sanitary landfill or by incineration, if allowed by State and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

United Phosphorus, Inc. warrants that at the time of delivery, this product will conform to its chemical description on the label, that it will pass without objection in the trade under the contract description, that seller will convey title hereto, and that such product will be delivered free from any lawful security interest, lien or encumbrance.

This is the only warranty made on this product. UNITED PHOSPHORUS, INC. EXPRESSLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND, EXCEPT AS SET FORTH IN THE ABOVE PARAGRAPH, ANY OTHER EXPRESS OR IMPLIED WARRANTIES. BUYER ACKNOWLEDGES THE USE OF ITS OWN INDEPENDENT SKILL AND EXPERTISE IN THE SELECTION AND USE OF THE PRODUCT AND DOES NOT RELY ON ANY ORAL OR WRITTEN STATEMENTS OR REPRESENTATIONS.

EPA Approved. 08/25/2003 Revision (notification): 09/05/2003 Draft Amendment: 10/02/2003, revised 01/09/2004



Elizabeth Brown https://doi.org/10.1001/10 To: Susan Stanlon/DC/USEPA/US@EPA

cc: "Tillman Ann (E-mail)" <atiliman@upi-usa.com>

Subject: UPI Bifenthrin EPA Reg No 70506-18

01/09/2004 12:37 PM

Susan:

In response to your phone call of January 7, 2004, and on behalf of our client United Phosphorus Inc., attached please find the following revised items for the amendment to UPI's bifenthrin technical label (amendment originally submitted on 10/6/03):

draft labeling draft labeling with additional revisions marked as redline data matrix - Agency Use data matrix - Public File Copy

The certification with respect to citation of data previously filed for this amendment covers any changes in the data matrix; a new certification will not be filed unless you let me know otherwise.

Thanks very much. Please let me know if there is anything else that is needed. Would you please acknowledge safe receipt of this email and attachments by reply to this message?

Regards, Elizabeth Anne Brown

<<20040109.Bifenthrin Technical label Amendment Food Uses.doc>> <<20040109.Bifenthrin Technical label Amendment Food Uses.Redline.doc>> <<20040109.data matrix.bifenthin technical food crops - Agency.doc>> <<20040109.data matrix.bifenthin technical food crops - Public.doc>>

Elizabeth Anne Brown, Ph.D.
Director, Scientific & Regulatory Affairs
ChemReg International
1990 Old Bridge Road, Suite 201
Lake Ridge, VA 22192

Phone: 703-492-7905 Fax: 703-492-0668

Email: brown@chemreg.com

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DATA MATRIX

Date: September 17, 2003	EPA Reg No./ File Symbol	Page 1 of 4
	70506-18	-
Applicant's/Registrant's Name and Address:	Product: Bifenthrin Technical Insecticide/Mi	ticide
United Phosphorus, Inc.		
423 Riverview Plaza		
Trenton, NJ 08611	·	
Ingredient: Bifenthrin (PC 128825)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
61-1 (830.1550)	Chemical identity	45654401_	United Phosphorus Inc (UPI)	Own	
61-2a (830.1620)	Starting materials and manufacturing process	45654401	UPI:	Own	
61-2b (830.1670)	Formation of impurities	45654401	UPI	Own	
62-1 (830.1700)	Preliminary analysis	45654401_	UPI	Own	
62-2 (830.1750)	Certification of limits	45654401	UPI	Own	
62-3 (830.1800)	Analytical method	45654401	UPI	Own	
63-2 (830.6302)	Color	45654402	UPI	Own	
63-3 (830.6303)	Physical state	45654402	UPI	Own	
63-4 (830.6304)	Odor	45654402	UPI	Own	
None (830,7050)	UV/Visible Absorption	CITE ALL	FMC Corp Agricultural Products Group (FMC); The Scotts Co (Scotts); The Andersons Lawn Fertilizer Division, Inc. (Andersons)	pay	
63-5 (830.7220)	Melting point	45838001	UPI	own	
63-7 (830.7300)	Density	45838001, 46008501, 46008502	UPI	own	
63-8 (830.7840)	Solubility	CITE ALL	FMC, Scotts, Andersons	pay	
63-9 (830.7950)	Vapor pressure	CITE ALL	FMC, Scotts, Andersons	Pay	
63-10 (830.7370)	Dissociation constant	CITE ALL	FMC, Scotts, Andersons	Pay	
63-11 (830.7550)	Octanol/water partition	CITE ALL	FMC, Scotts, Andersons	Pay	
63-12 (830.7000)	рН	45838001	UPI	own	
63-13 (830.6313)	Stability	45654403	UPI	own	

Signature	Name and Title	Date
Elizabet are Grown	Elizabeth Anne Brown, ChemReg International, LLC Registration Agent	9/17/2003





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DATA MATRIX

Date: September 17, 2003	EPA Reg No./ File Symbol 70506-18	Page 2 of 4	
Applicant's/Registrant's Name and Address: United Phosphorus, Inc. 423 Riverview Plaza	Product: Bifenthrin Technical Insecticide/Miticide		
Trenton, NJ 08611 Ingredient: Bifenthrin (PC 128825)			

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6314	Oxidation/reduction	45838001	UPI	Own	
830.6315	Flammability	45838001	UPI	Own	
830.6316	explodability	45838001	UPI	Own	
830.7220	Boiling point	45838001	UPI	Own	
830.7370	Dissociation constant	45838001	UPI	OWn	
71-1b (850.2100)	Avian acute oral toxicity	CITE ALL	FMC, Scotts, Andersons	Pay	
71-2 (850.2200)	Avian dietary toxicity	CITE ALL	FMC, Scotts, Andersons	Pay	
71-4 (850.2300)	Avian reproduction	CITE ALL	FMC, Scotts, Andersons	Pay	
72-1 (850.1075)	Fish acute toxicity	CITE ALL	FMC, Scotts, Andersons	Pay	
72-2 (850.1010)	Invertebrate loxicity	CITE ALL	FMC, Scotts, Andersons	Pay	
72-3 (850.1025 - 1055)	Estuarine/marine toxicity	CITE ALL	FMC, Scotts, Andersons	Pay	
72-4 (850.1300)	Invertebrate Chronic toxicity	CITE ALL	FMC, Scotts, Andersons	Pay	
72-4 (850.1350)	Invertebrate chronic toxicity	CITE ALL	FMC, Scotts, Andersons	Pay	
72-5 (850.1400)	Fish life early life cycle	CITE ALL	FMC, Scotts, Andersons	Pay	
141-1 (850.3020)	Honeybee acute contact toxicity	CITE ALL	FMC, Scotts, Andersons	pay	
81-1 (870.1100)	Acute oral-rat	45654404	UPI	Own	
81-2 (870.1200)	Acute dermal- rabbit/rat	45645505	UPI	Own	
81-3 (870.1300)	Acute inhalation - rat	00155286	FMC	Old	
81-4 (870.2400)	Primary eye irritation - rabbit	00132522	FMC	Old	
81-5 (870.2500)	Primary dermal irritation - rabbit	00132521	FMC	Old	
81-6 (870.2600)	Dermal sensitization	00132523	FMC	Old	
81-8 (870.6200)	Acute neurotoxicity	CITE ALL	FMC, Scotts, Andersons	Pay	
82-1 (870.3100)	90-Day feeding	CITE ALL	FMC, Scotts, Andersons	pay	

Signature

Name and Title
Elizabeth Anne Brown, ChemReg International, LLC
Registration Agent

Date
9/17/2003



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DATA MATRIX

Date: September 17, 2003	EPA Rcg No./ File Symbol	Page 3 of 4
	70506-18	
Applicant's/Registrant's Name and Address:	Product: Bifenthrin Technical Insecticide/Mitic	ide
United Phosphorus, Inc.		
423 Riverview Plaza		
Trenton, NJ 08611		
Ingradient: Rifenthrin (PC 12825)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
82-2 (870.3200)	21-Day dermal toxicity rats	CITE ALL	FMC, Scotts, Andersons	Pay	
82-7 (none)	Subchronic neurotoxicity - rat	CITE ALL	FMC, Scotts, Andersons	pay	
83-1a (870.4100)	Chronic feeding toxicity - rodent	CITE-ALL	FMC, Scotts, Andersons	Pay	
83-1b (870.4100)	Chronic feeding toxicity - dog	CITE-ALL	FMC, Scotts, Andersons	Pay	
83-2a (870.4200)	Oncogenieity rat	CITE-ALL	FMC, Scotts, Andersons	Pay	
83-26 (870.4200)	Oncogenicity - mouse	CITE-ALL	FMC, Scotts, Andersons	Pay	
83-3a (870.3700)	Teratogenicity rat	CITE-ALL	FMC, Scotts, Andersons	Pay	
83-3b (870.3700)	Teratogenicity - rabbit	CITE-ALL	FMC, Scotts, Andersons	Pay	
83-4	2-Generation Reproduction Study	CITE-ALL	FMC	Pay	
OPPTS 870.6300	Developmental Neurotoxicity	Data gap			
84-2	Mutagenicity studies	CITE-ALL	FMC, Scotts, Andersons	Pay	
84-4	Other genotoxic effects	CITE-ALL	FMC, Scotts, Andersons	Pay	
85-1 (870.7485)	General metabolism	CITE-ALL	FMC, Scotts, Andersons	Pay	
85-2	Dermal absorption	CITE-ALL	FMC, Scotts, Andersons	Pay	
161-1	Hydrolysis	CITE ALL	FMC, Scotts, Andersons	Pay	
161-2	Photodegradation in water	CITE ALL	FMC, Scotts, Andersons	Pay	
161-3	Soil photolysis	CITE-ALL	FMC	Pay	
162-1	Aerobic soil metabolism	CITE-ALL	FMC, Scotts, Andersons	Pay	
163-1	Adsorption/desorption	CITE ALL	MC, Scotts, Andersons	Pay	
163-2	Lab volatility	CITE ALL	FMC	Pay	
164-1 (875.2200)	Field soil dissipation	CITE-ALL	FMC, Scotts, Andersons	Pay	
165-4	Bioaccumulation in fish	CITE-ALL	FMC, Scotts, Andersons	рау	
Special studies	Other	CITE ALL	Pyrethroid Working Group	pay	

Signature

| Name and Title | Elizabeth Anne Brown, ChemReg International, LLC | 9/17/2003 |
| Registration Agent | Registration Agent



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WASHINGTON, D.C. 20460

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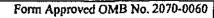
DATA MATRIX

Date: September 17, 2003	EPA Reg No./ File Symbol 70506-18	Page 4 of 4
Applicant's/Registrant's Name and Address:	Product: Bifenthrin Technical Insecticide/Mit	icide
United Phosphorus, Inc.		
423 Riverview Plaza		
Trenton, NJ 08611	·	
Ingredient: Bifenthrin (PC 128825)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
132-1 (857.2100)	Foliar residue dissipation	CITE ALL	FMC, Scotts, Andersons	Pay	
133-3 (875.2400, 2500)	Dermal exposure	CITE ALL	UPI is a member of the Ag Re-entry task force; UPI is a member of the Outdoor Residential Task Force	Own	,
133-4 (857.2500)	Inhalation exposure	CITE ALL	UPI is a member of the Ag Re-entry task force; UPI is a member of the Outdoor Residential Task Force	Own	
201-1, 202-1 (840.1100, 835.4200)	Spray drift and droplet size	CITE ALL	UPI is a member of the Spray Drift Task Force	Own	
171-4a	Nature of residue - plants	CITE ALL	FMC	Pay	
171-4b	Nature of residue - livestock	CITE ALL	FMC	Pay	
171-4c	Residue analytical method - plants	CITE ALL	FMC	Pay	
171-4d	Residue analytical method – animals	CITE ALL	FMC	Pay	
171-4e	Residue storage stability	CITE ALL	FMC	Pay	
171-4i	Magnitude of residues - meat/milk/poultry/egg	CITE ALL	FMC	Pay	
171-4k	Magnitude of residues - field crop trials	CITE ALL	FMC, IR-4	Pay	
171-41	Magnitude of residues - processed commodities	CITE ALL	FMC	Pay	
171-4m	Multi-residue method	CITE ALL	FMC	Pay	
165-1	Confined rotational crop	CITE ALL	FMC	Pay	
165-2	Field rotational crop	CITE ALL	FMC	Pay	

40

Signature	Name and Title	Date
We a contract of the contract	Elizabeth Anne Brown, ChemReg International, LLC	9/17/2003
Thisewer are Brown	Registration Agent	





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WASHINGTON, D.C. 20460

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Date: January 9, 2004 EPA Reg No / File Symbol 70506-18 Applicant's/Registrant's Name and Address: United Phosphorus, Inc. 423 Riverview Plaza Trenton, NJ 08611 Ingredient: Bifenthrin (PC 128825)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			United Phosphorus Inc (UPI)	Own	
			UPI	Own	
			UPI .	Own	
			UPI	Own	
			UPI -	Own	
			UPI	Own	
			UPI	Own	
			UPI	Own	
			UPI	Own	
			FMC Corp Agricultural Products Group	pay	
			(FMC); The Scotts Co (Scotts); The		1
			Andersons Lawn Fertilizer Division, Inc.		
			(Andersons)		
출시하는 성도로 기계 사실 경기 가능한 기계 등을 하는 구조가 가능하고 기 기계 기계 기계			UPI	own	
			UPI	own	_
				<u> </u>	
			FMC, Scotts, Andersons	pay	
			FMC, Scotts, Andersons	Pay	
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Signature	Name and Title	Date
Heizewer ance Brown	Elizabeth Anne Brown, ChemReg International, LLC Registration Agent	1/4/2004
	Registration Agent	





INITED STATES ENVIRONMENTAL PICTION AGENCY 401 M Street, S.W.

WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instruction and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington DC 20460. Do not send the form to this address.

DATA MATRIX Date: January 9, 2004 EPA Reg No./ File Symbol 70506-18 Applicant's/Registrant's Name and Address: United Phosphorus, Inc. 423 Riverview Plaza Trenton, NJ 08611 Ingredient: Bifenthrin (PC 128825)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
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Signature	Name and Title	Date
Elizabet are Grown	Elizabeth Anne Brown, ChemReg International, LLC Registration Agent	1/4/2004





INITED STATES ENVIRONMENTAL PHETECTION AGENCY 401 M Street, S.W.

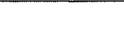
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Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instruction and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington DC 20460. Do not send the form to this address.

Date: January 9, 2004 EPA Reg No./ File Symbol 70506-18 Applicant's/Registrant's Name and Address: United Phosphorus, Inc. 423 Riverview Plaza Trenton, NJ 08611 Ingredient: Bifenthrio (PC 128825)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
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Signature	Name and Title	Date
The same of the same of	Elizabeth Anne Brown, ChemReg International, LLC	1/4/2004
Plijabeth and Brown	Registration Agent	



NITED STATES ENVIRONMENTAL PRESECTION AGENCY

Form Approved OMB No. 2070-0060

401 M Street, S.W.

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DATA MATRIX Date: January 9, 2004 EPA Reg No./ File Symbol Page 4 of 4 70506-18 Applicant's/Registrant's Name and Address: Product: Bifenthrin Technical Insecticide/Miticide United Phosphorus, Inc. 423 Riverview Plaza Trenton, NJ 08611 Ingredient: Bifenthrin (PC 128825)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
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Signature	Name and Title	Date
We are a second	Elizabeth Anne Brown, ChemReg International, LLC	1/4/2004
Thispered Anne Drown	Registration Agent	

Needs minor raisions

Bifenthrin Technical Insecticide/Miticide

Discussed w/E. Brown
1/7/04. She will revise
matrix and label
and resubmit.
Closed out w/
code 13 on 1/7/04

FOR FORMULATION USE ONLY

ACTIVE INGREDIENT:

Bifenthrin: (2-methyli t,1'-biphenylj-3-yl) methyl 3-(2-chloro-3,3,3-trilluoro-1-propenyl)

*Cls Isomers 97% minimum, trans Isomers 3% maximum.

KEEP OUT OF REACH OF CHILDREN WARNING

United Phosphorus Inc. 423 Riverview Plaza Trenton, NJ 08611 EPA Reg. No. 70506-18 EPA Est. No.

Have the product conti	FIRST AID ainer or label with you when calling a poison control center or doctor, or going for
lt swallowed	 Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give give anything by mouth to an unconscious person.
If inhaled	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
If on skin or clothing	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes Call a potson control center or doctor for treatment advice.
If in eyes	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue thising eye. Call a polson control center or doctor for treatment advice.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL THE NATIONAL PESTICIDE INFORMATION CENTER 1-800-858-7378

PRECAUTIONARY STATEMENTS

Hazards to Humans (and Domestic Animals)

Warning

May be fatal if swallowed. Harmful if inhaled or ebsorbed through the skin. Causes moderate eye Irritation. Avoid breathing dust. Avoid contact with skin, ayes, or clothing. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Environmental Hazards

This pesticide is toxic to fish and aquatic invertebrates. Do not discharge efficient containing this product into lakes, streams, ponds, estuaries, oceans, or public waters unless in accordance with the requirements of a National Pollutant Discharge Eliminations System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge efficient containing this product to sewer

systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the Environmental Protection Agency.

Physical/Chemical Hazards

Do not use or store near heat or open flame."

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

This material requires further mixing before use 🗸

Only for formulation into an insecticide/miticide for

(1) The following uses:

Terrestrial Food/Feed Crops: Sweet Cem, Succulent Peas and Beans, Head and Sterr Brassica Vegetables, Globe Artenoke, Cucurbits, Herbs, Banapas (import only); Legume Vegetables, Cotton, Field Com (Grain and Stiage). Popsom, Field Com Grown for Seed, Hors, Greenhouse Grown Ornamental Press, Bhrubs, Plants, Flowers, Non-bearing Fruit and Nut Trees, Rappeaed, Canola, Crambe, Strawberries, Carreberries, Lenues (nean), Pears, Clique, Topiato, Pappers (bell end nop-bell), Eggplant, Spingolf, Tree Nuts.

Terrestrial Non-Food:

Termiticide and Soil Contact Nontumigation Treatment Wood Treatment and Protection Outdoor insect Control Omamental plants, trees, shrubs, and vines (woody)

Residential Lawns Indoor Insect Control

Non-Food/Feed Areas: May be used to manufacture end-use products for use as a spot or crack and crevice treatment in non-food areas. Similar areas where insects hide or through which insects may enter can be treated. Examples of non-food areas include: garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning and bottling).

Food/Feed Areas: May not be used to manufacture products for use in lood/faed ereas. Do not use in lood areas of food handling establishments, restaurants, or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed or facility is in operation. Serving areas are areas where prepared food are served such as dining rooms but excluding areas where loods may be prepared or held. In the home all lood processing surfaces and utensits should be covered during treatment or thoroughly washed before use. Exposed loods should be covered or removed. Examples of lood areas are areas for receiving, storage/packing (canning, bottling, wrapping, boxing), preparing, edible wastes, storage and enclosed processing systems (mills, dairies, edible oils, syrups). Serving areas (when food is exposed and facility is in operation) also would be considered a food area.

- (2) Uses for which U.S. EPA has accepted the required data and/or citation of data that the formulator has submitted in support of registration; and
- (3) Uses for experimental purposes that are in compliance with U.S. EPA requirements.

Formulators using this product are responsible for obtaining U.S. EPA registration for their formulated product which may be labeled for the use patterns as found listed on this label.

cald add

Storage and Disposal

Do not contaminate water, food, or feed by storage and disposal.

PESTICIDE STORAGE

Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace ilds and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

in case of spill, avoid contact, isolate area, and keep out animals and unprojected persons. Conline spills.

PESTICIDE DISPOSAL

Pesticide wastes are toxic. Do not contaminate water, food or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation to Federal law. Dispose of excess waste or pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL

Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration, if allowed by State and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300

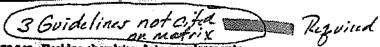
CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

United Phosphorus, Inc. warrants that at the time of delivery, this product will conform to its chemical description on the label, that it will pass without objection in the trade under the contract description, that seller will convey title hereto, and that such product will be delivered free from any lawful security interest, lien or encumbrance.

This is the only warranty made on this product. UNITED PHOSPHORUS, INC. EXPRESSLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND, EXCEPT AS SET FORTH IN THE ABOVE PARAGRAPH, ANY OTHER EXPRESS OR IMPLIED WARRANTIES. BUYER ACKNOWLEDGES THE USE OF ITS OWN INDEPENDENT SKILL AND EXPERTISE IN THE SELECTION AND USE OF THE PRODUCT AND DOES NOT RELY ON ANY ORAL OR WRITTEN STATEMENTS OR REPRESENTATIONS.

EPA Approved. 08/25/2003 Revision (notification): 09/05/2003

Draft Amendment: 10/02/2003



§ 153.200 Bosidue chemistry data requirements.

(a) Table. Sections 158.50 and 159.100 through 159.103 describe how to use this table to determine the residue chemistry data requirements and the substances to be tested.

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(14) Regions to support regionalism of an indoor use position if such a use could result to residence in food or local. (16) For all local uses, data on whether the FDAVECA membration methodology would detect and laterally the positions are required.

[42 FR 42381, Oct. 24, 1994. Referignated and amended at 53 FR 1533, 1539, May 4, 1883; 53 FR 5133, Jane 29, 1833

\$158,500 Environmental fate data requirements.

(a) Table. Sections 158.50 and 159.100 through 153.103 describe how to use this table to determine the environmental fate data requirements and the substance to be tested.

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[49 FR 42331, Oct. 24, 1984, Redesignated at 23 FR 15533, May 4, 1988]

§ 158.340 Toxicology data requirements.

(a) Table. Sections 153.50 and 153.160 through 153.162 describe how to use this table to determine the toxicology data requirements and the substance to be tested.

Required and submitted by FAC. Must city. 161-3 163-2

Environmental	
Protection Agency	

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[49 YR 4281, Oct. M. 1884. Redesignated and amended at 53 PR 1888, 1889, May 6, 1888; 58 PR 54203. June 23, 1895] § 158.289 Reentry protection data requirements.

(a) Table. Sections 158.50 and 158.100 through 158.102 describe how to use this table to determine the recutry protection data requirements and the substance to be tested.

					Çen	मध्ये स्थान क्षेत्र) The				Test ex	belavice	
Kind of this required	(b) Notice	Tom	referred.	Aş	ng độc	Gross	house		A		B		Guldeline subsecce
		Pood orop	Hestood	Pood Grop	Hooksd	Food crup	Nordead	Foregay	orașio. Demențe	index	Data to exposed	Come to incline	ida.
Foliar dissipation	(1), (2), (1), (2),	223	888	888	888		=	55.55 55.55					1883 1884
Remark defeating	(B)		CA CA	CR .	¢a.			CA .			129	TP	120-4

per. This explice primarily to posticides that will be used in orche where his

a order more not enterenance, or to cope the adiometria exposures break approach for proposed of a recentry interveal, uthannel precision invalves human lesses that would causes exchanged exposure to residuous excited to soil, [49 FR 42881, Oct. 24, 1884. Redesignated at 53 FR 15923, May 4, 1988, and amended at 50 FR 24203, June 23, 1923]

§155.440 Spray drift data requirements.

ä

(a) Table. Sections 158.50 and 158.100 through 158.102 describe how to use this table to determine the aerial spray drift data requirements and the substance to be tested.

				·····	Ger	atral tree pe	Serry						
Mind of data required	(b) Notes	Terr	Delria:	Aq	vole:	Gran	nhouse	T			Test as	beimos	Guide.
		Food	Nontoes	Food	Nantoes	Pood	Nonload	Forestry	Domestic outstoor	indoor	Data to sup- port Life	Date to aug-	Bridg FM.
Original size spectrum		CR CR	CR CR		CR			CR				per gr	Ho.
Key: CR-Conditionally rec				CR	CN	L <u></u>		CR			189	789	DI-1_

(ii) Horres.— The following are relevanced in one (i) This study is required when serial application test level of those nontareal amenical application.

[49 FR 42681, Oct. 24, 1984. Redesignated at 83 FR 15983, May 4, 1988, and amended at 86 FR 34203, June 23, 1983] § 158,490 Wildlife and aquatic organisms data requirements.

(a) Table. Sections 158.50 and 158.100 through 158.102 describe how to use this table to determine the wildlife and aquatic organisms data requirements and the substance to be tested.

···	•				Ger	Heal Log pa	Zama						
Kind of data required	(b) Notes	Terr	potrie)	149	unit:		nhouse	 		γ	Tast p.	Ostanze	
		Food	Hondood	Food Crop	Hontood	Food	Hanfood	Forestry	Domestic outdoor	indoor little	Date to support	Data to support	Guido- Znes ref- eranco
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Arian oral LD _m (pnet- arably maters or bobunks).	O)	PI	(FS)	(Pi)	Pij	CR	CR	[FI]	M	CR	TGAI	TOW	
				,		•	•		l ;				52

`					Gara	للبوجه ادد	p##0			,	Test es		Caracter Street red-
रिक्रो से देखे राज्येको	(h) Notes	Test	##***	Papi	2 283	Grapni	erato		Compation	Indeer	Dain to pappent	Data to support	Sheet red- countries file.
Date of State Laborate.	, , , , , , , , , , , , , , , , , , ,	Food GPG9	Biomicosi		Harrisod	Possi (Pag)	Herdred	Porestry	Compate Compate	122	₩*	(2)	
Avian distany LCos tomicratky materia	(1)	P 4	A	M	<i>[</i> 70	CR	CA	34	珂	CR	TOM	T&4	13-1
(protessity makers and (scientifis). Whi maneral textoly Actor reproduction	8	es es	CS CS	88	CA CA			CA CA	66		TOW	TON	77-0
(projectly mailted and behalita). Simulated and atthesi told being—atten- mais and tirds.	Ø	CR	ca	CA	CR CR			ÇR.	C#		T29	78 ?	71-8
Aquato organism tenting Fundamentar tish LCom	().(7)		pa	30	570	CR.	CA.	67 0	M	CR	TON	TOW	
proposed and com probeoty springs and bings. Ands (LO _B trainests) translations (pro-	เหต	1	PI	64	PI	са	CF.	P 4	PI.	C/R	тем	TOA	79-4
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ritims. Fish early the rings and agentle investor		CR	Ch	CPA CPA	CFR.	ļ		CF1	C31		. TOW	Tex	79-4
trata Be-cycle. Path-Be-cycle Aquello organism &c- cumulation.	6	CA CA	CFI CFI	CR CR	CR CR			CR CR	CF.		TOAL PAL or control on products	TON PAL OF CASTRONIAN PRODUCE	78-4 72-4
Environd or actual faild location—experience.	F		CR.	CFA	CR			CPI	СЯ		. TEP	789	72-7

dže liegād or a leighty maerijots soliki. Jong Less producti repistration. Jos Janeža od Domer čer skupijska sucht zur acrete and substruks landing, kniencied van pulturu, ond poetin

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or expected to transport to water from the intended use site, and return any of the following conditions

[45 FR 4231, Oct. 24, 1984. Redesignated at 23 FR 1533, May 4, 1835, and amended at 35 FR 2633, June 23, 1833] § 188.540 Plant protection data requirements.

(a) Table. Sections 188.50 and 188.100 through 188.102 describe how to use this table to determine the plant protection data requirements and the substance to be tested.

					Gart	eral use pol	lero				Test to	betance	.
Nind of data required	(b) Hotes	Tam	etrici	Aqu	efic	Green	house		Domesto			Dein to sup-	Chida- Brass raf-
•		Food crop	Honfood	Food crop	Norteed	Food emp	Monked	Forestry	orages.	testoor	Date to sup- port MP	port EP	Ma,
Target amo phytotoxicity Horitorpet amo phytotoxicity. Tier t.	(1)										Ø	e>	121-1
Seed germination/ seeding emer-	(2)		R		PA.	 		R			TOM	TOM	122-1
ganse. Vagatativa Wgor	(2)	l	l a	l	п	j ,		A	l		TOW	53 m	122-1

				······································	Q.	گنج جعب لید					Test to		Children
	(b) Hotes	Tana	de la	147	sia .	Çaptil	17.00	*	Domestica guarante	les-daster	Day to go	Cost to Par-	CONTRACT CONTRA
रिक्ष से संबंध स्वयंत्रि	God sweet	Possi Caso	Hardsod	Food (Pap	timized	Page CED	Hadaal	Ferencey	entricot.	270007	pst 109	bar en .	
	(2)		A		R			R			TEAL	784	123-2
Agusti plani graniti Tiar it Baad genekatiani	(2)		CSI		CP.			CR			70AI	704	123- 1
tracilità curat- genta. Vegatable viger Aquato pinti greeti	9		CR CR	_	CF.			CA CA		<u> </u>	TOM	TOM	123-1 123-2
Ther St. Terrestrici Edd Aquatic Sold	(S) (4)		8		CA CA			CA CA			127	127	124-1

M1. Oct. 24, 1994. Redesignated at 83 FR 12663, May 4, 1899, and amended at 63 FR 24263, June 23, 1993)

§ 158.500 Nontarget insect data requirements.

(a) Table. Sections 153.50 and 153.100 through 153.102 describe how to use this table to determine the nontarget insect data requirements and the substance to be tested.

BADA STREET TAGET 4-													
					Care	क्यां स्थान द्रव्य	lipsia.				Test au	helanes	Outle-
		Terro	otorinal .	Aqu	.	Green	h0:04		Domestão	kndoor	Data to see-	Date to trup- port EP	tres rel-
No.d of data respirate	(6) Haise	Feed	Handadd	Food	Nederal	Food erop	Hambad	Forestry	puddaor	U59	Casta to trap- port \$60°	post EP	No.
Hentarget based tending— politations Hensy bee scude content LDes Hensy bee—tending of residues on foliage. Hensy bee substants foref- ing shally. Fault tending for politations	(1) (2)	tcut	EZE CR CR	E	EST CS			CR CR	CR CR		16W	TQA	141-8 141-8

Nontergal issued Inding-	1											
Anda todely to aquility had a	(49)	 :		 						***************************************		142-1
Aquatio insect file-cycle	(5)			 								142-1
Strateted or extent field	(6)			 								149-8
teeting for equatic in- sects. Horsegal based teeting- produtes and pureation.	(B)	 	 	 			 				 	145-1 Eng 145-3
	<u> </u>	<u> </u>		 <u> </u>	1	<u> </u>	L	143-3				

[CRO indicate data requirements that egply to products for which an experimental uso purell is being except, TGAL-Technical grade of

ciety effects other then anote mortelly (reproductive, behavioral, etc.).

[45 PR 42281, Oct. M. 1894. Redesignated at 55 FR 15503, May 4, 1865, and amended at 55 FR 54203, June 25, 1893]

§ 158.645 Product performance data requirements.

(a) Table. Sections 158.50 and 158.500 through 158.162 describe how to use this table to determine the product performance data requirements and the substance to be tested.

					Gar.	erei una pez	larring.				Tiest #4	Deteron	A
Kind of data required	(b) Notes	Terre	eviel .	A	uide:	Green	Acues		Domesto		P	Page 45	Guide- Bres rel
		Food orto	Nentood	Food cates	Nanicod	Food crop	Honlood	Fareevy	tration.	indoor	Data to sup- port MP	Date to sup- port EP	Wranca No.
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Verducts for some on hard	(1)									CR.		₽	81-
reducts requising con- ferences date.	(1)									CFI		e	\$1-
roducte for one on tel- rice and totalise.	(1)	***************************************								CFR		<i></i>	#1-
or marketimes	(0)									CR CR		\$ '	91- 91-
crobial peats sosociated with human and animal											1	54	4

					Com	mil voe pa	tama.				Text #4	antareno	©2/62-
Kind of tale maked	(b) Notes	Tem	न्धं देवी	Aqu	ede	G _{reat} y	Parties .		Barrella		Subs to sus	Cata to say.	Enga est-
		Foed crop	Northed	Food extp	Honfood	Phod trup	Macdaust	Foresty	Corposite equipmen	indoor	Data to emp- port tide	74 B	inistrica Pila.
Products for treating nation systems.	(1)		—	C#8						ÇR		-	81-0
Edicacy of fundation and namedicides													
Products for control of cr- garisms producing mycolosins.	(9)	ICH)		ICM		(Ctd						E>	93-18
Elikany el Vertibrilla Control Agenta													
Avian tericants	(1) (1) (2) (3)	88 — 8 —	<u></u>			<u>=</u>			R —	80 <u> </u>			90-8 99-9 99-7 98-0
Commerce redenticities Redenticities on from and remediands.	(n)	% —							% —	<u>m —</u>	TP	5 —	69-10 65-12
Rodent turdgerta	(i)	*	8 —	<u> </u>	=	<u> </u>		=	% —	m_ m=		F	\$9-13 \$5-16
Manusadas postackies	(1)	<i>(</i> 10)	64		<u> </u>	<u> </u>	<u> </u>		<i>7</i> 0	ļ		<u> </u>	\$4-17

[49 PR 4231, Oct. 24, 1884, as amended at 80 PR 48785, Nov. 13, 1985. Redesignated at 53 PR 1833, May 4, 1839, and amended at 53 PR 34283, June 23, 1993]

§ 188.630 Blochemical pesticides data requirements.

(a) Biochemical perticide product analysis data requirements—(1) Table. Sections 158.50 and 158.160 through 158.162 decided by the table to determine the biochemical posticides—product analysis data requirements and the

	I	<u> </u>				-	diament -				·	<u> </u>	
Kind of data required	(22) Hostons	·	teririni	149	وأنحا	Ores	This are	T		·	Yest p	وعوضات	T
		Pood crop	Nontred	Food	Hontood	Food	Nontacci	Foresby	Domonte #Adear	Indoor	Data to sup.	Data to page	Grade rei
Product Identity Manufacturing process		Pri	[74] [44]	FI.	A	M				ļ <u>.</u>	port Me	port EP	Ma
Discussion of learnest on ad		BAI	en i	1) '	1 .	R	A			MP and	EP 400	181-
unknimicral ingredents. Analysis of campins		ICRI	ICR)	(P)	PI	Pi	何	m	PQ	77 9	TOAL MP and	TOM.	155-1
Certification of East-		(78)		icsi)	ICM	(CR)	icui	(CR)	icsi	(ON)	TOAL NO and	TOM.	181-1
Americal material Physical and chamical		P I	*	P.	Ä	押	P	R	A	A	YOU.	TOAL	151-1
properties. Submittel of exercises		IC46		179	i	[PI]	17 9		ñ	R Pg	LEP and		151-1
Key: Ruftsquired CR-Con			;	ICN	[CA]	(CR)	(CR)	ICRI	(CPS)	ices	TOAL.	TON.	151-1 181-1

(b) Biochemical pesticides residue data requirements. (1) Table. Sections 158.50 and 158.100 though 158.102 describe how to use this table to determine the biochemical pesticides—residue data requirements and the substance to be tested.

		7						e redim	CITIONER	And the	dishesa.		AUW
		<u> </u>			Ger	well use po	Charge				substanc	a to be tes	ted.
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Chamical Monthy	维. 例.	ICRI	ICM:	ICA)		cade	<u> </u>	 _		· .	bout Fib.	port EP	Ha.
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	Unite	d States	·	Registration	n	OPP Identifier Number
SEPA				X Amendme	nt	
	Environmental I	Protection Ag	jency	Other		
		on, DC 20460				
		cation for Pe	esticide – Sectio		,	
1. Company/Product Number 70506-18			2. EPA Product Ma George LaRocca	anager	3. Propos	ed Classification
4. Company/Product (Name)			PM#		Non	e Restricted
Bifenthrin Technical Insecticide			13		اللا	
5. Name and Address of Appli United Phosphorus, Inc.	icant (include ZIP Code)		6. Expedited Revi (b)(i), my product is	ew. In accordance	e with FIFE	RA Section 3(c)(3)
423 Riverview Plaza			to:	i sirnisi of lognici	ai in compo	smou and rabered
Trenton, NJ 08611			EPA Reg No.	279-3055		
Check if this is a new add	denen	-	Product Name	Bilenthrin Techni	ical Ineactiv	-idan Matitical do
Check it this is a new abo	uress		Productivania	Chemin Ichai	CH HOCCH	ACC MILICOG
	*	Secti	on - il	•		
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			Agency lette	•		
Resubmission in respons	se to Agency letter dated		X *Me Too* A			
Notification - Explain bet	ow		Other Exp	lain below		•
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Elizabeth Anne Brown			nternational, LLC	703-49		רוחתם שופת האתם)
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I certify that the statements I ha		lfication	wate our twee managers.	and commists	6.	Date Application Received
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both under applicable law	the comment and					
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7						****
Typed Name		5. Date			••••	•
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Elizabeth Anne Brown		October 6,	2003		•••	****
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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M STREET, S.W. WASHINGTON, D.C. 20460

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Certification with	Respect to Citati	on of Data
Applicant's/Registrant's Name, Address, and Telephone Number United Phosphorus, inc. 423 Riverview Plaza Trenton, NJ 08511 609-392-8200	•	EPA Registration Number/File Symbol 70506-18
Active Ingredient(s) and/or representative test compound(s) bitenthrin		Date October 5, 2003
General Use Pattem(s) (list all those claimed for this product using 40 Terrestrial Non-Food, Domestic Outdoor, Indoor, Terrestrial Food/Feed	CFR Part 158)	Product Name Blienthrin Technical insecticide/Miticide
OTE: if your product is a 100% repackaging of another purchased E submit this form. You must submit the Formulators Exemption State	PA-registered produc ament (EPA Form 85	f tabeled for all the same uses on your lebel, you do not need 70-27)
i am responding to a Data-Cali-in Notice, and have included a should be used for this purpose).	with this form a list of	companies sent offers of compensation (the Data Matrix form
SECTION 1: METHOD OF DA	ATA SUPPORT (Che	ck one method only)
i am using the cite-all method of support, and have included vinis form a list of companies sent offers of compensation (the Matrix form should be used for this purpose)	Data 1	am using the selective method of support (or cite-all option inder the selective method), and have included with this form I completed list of data requirements (the Data Matrix form nust be used).
SECTION 11: (BENERAL OFFER T	PAY
(Required if using the cite-all method, or when using the cite-all option	under the selective m	ethod to setisfy one or more data requirements)
i hereby offer and agree to pay compensation, to other person	ns, with regard to the	epproval of this application, to the extent required by FIFRA
SECTION	iii: CERTIFICATIO	Y
I certify that this epplication for registration, this form for reregistration for registration, the form for reregistration, or the Data-C decrive method is indicated in Section 1, this application is supported product or an identical or substantially similar product, or one or more to aubmitted under the data requirements in effect on the date of appreciations or similar composition and uses.	Cali-in response. In a i by all data in the Ag of the ingredients in t oval of this applicatio	dition, if the cite-ali option or cile-ali option under the ency's files that (t) concern the properties or effects of this his product; and (2) is a type of data that would be required to a fit the application sought the initial registration of a product of
i certify that for each exclusive use study cited in support of this obtained the written permission of the original data submitted to cite the	at słudy.	•
I certify that for each study cited in support of this registration of submitter; (b) I have obtained the permission of the original data submit compensation have expired for the study; (d) the study is in the public I have offered (i) to pay compensation to the extent required by sections determine the amount and terms of compensation, if any, to be paid for	tfer to use the study i iterature; or (e) I have 3(c)(t)(F) and/or 3(c	n support of this application; (c) all periods of eligibility for a notified in writing the company that automitted the study and)(2)(B) of FIFRA; and (ii) to commence negotiations to
i certify that in all instances where an offer of compensation is r accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are ava such evidence to the Agency upon request, i understand that the Agen conformity with FIFRA.	llable and will be sub	mitted to the Agency upon request. Should I fall to produce
i certify that the statements i have made on this form and a knowingly false or misleading statement may be punished by fin		
Signature	Dale	Typed or Printed Name and Title
ann m. Jellen	Oct. 6, 2003	Ann M. Tillman Technical Director

EPA Form 8570-34 (9-97) Electronic and Paper versions available. Submit only Paper version.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

October 10, 2003

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

ELIZABETH ANNE BROWN UNITED PHOSPHORUS INC 423 RIVERVIEW PLAZA TRENTON, NJ 08611

PRODUCT NAME: BIFENTHRIN TECHNICAL INSECTICIDE/MITICIDE

COMPANY NAME: UNITED PHOSPHORUS INC

EPA FILE SYMBOL: 70506-18 EPA RECEIPT DATE: 10/06/03

SUBJECT: RECEIPT OF AMENDMENT

DEAR REGISTRANT:

The Office of Pesticide Programs has received your application for an amendment and it has passed an administrative screen for completeness.

During the initial screen we determined that the application appears to qualify for fast track review. The package will now be forwarded to the Product Manager for review to determine its acceptability for fast track status.

If you have any questions, please contact Registration Division, Risk Management Team 3, at (703) 305-6788.

Sincerely,

Front End Processing Staff

2 Wrice

Information Services Branch

Information Resources and Services Division



NITED STATES ENVIRONMENTAL PRECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for reregistration and special review activities, including time for reading the instruction and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington DC 20460. Do not send the form to this address.

DATA MATRIX

Date: September 17, 2003	EPA Reg No./ File Symbol	Page 1 of 4
	70506-18	
Applicant's/Registrant's Name and Address:	Product: Bifenthrin Technical Insecticide/Mit	icide
United Phosphorus, Inc.		
423 Riverview Plaza		
Trenton, NJ 08611		
Ingredient: Bifenthrin (PC 128825)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
61-1 (830.1550)	Chemical identity	45654401	United Phosphorus Inc (UPI)	Own	
61-2a (830.1620)	Starting materials and manufacturing process	45654401	UPI	Own	
61-2b (830.1670)	Formation of impurities	45654401	UPI	Own	
62-1 (830.1700)	Preliminary analysis	45654401	UPI	Own	
62-2 (830.1750)	Certification of limits	45654401	UPI	Own	
62-3 (830.1800)	Analytical method	45654401	UPI	Own	
63-2 (830.6302)	Color	45654402	UPI ·	Own	
63-3 (830.6303) /	Physical state	45654402	UPI	Own	
63-4 (830.6304) /	Odor	45654402	UPI	Own	
None (830.7050)	UV/Visible Absorption	CITE ALL	FMC Corp Agricultural Products Group (FMC); The Scotts Co (Scotts); The Andersons Lawn Fertilizer Division, Inc. (Andersons)	pay	
63-5 (830.7220)	Melting point	45838001	UPI	own	
63-7 (830.7300)	Density	45838001, 46008501, 46008502	UPI	own	
63-8 (830.7840)	Solubility	CITE ALL	FMC, Scotts, Andersons	pay	
63-9 (830,7950) (Vapor pressure	CITE ALL	FMC, Scotts, Andersons	Pay	
63-10 (830.7370)	Dissociation constant	CITE ALL	FMC, Scotts, Andersons	Pay	
63-11 (830.7550)	Octanol/water partition	CITE ALL	FMC, Scotts, Andersons	Pay	
63-12 (830.7000)	pН	45838001	UPI	own	
63-13 (830.6313)	Stability	45654403	UPI	own	

Signature

Name and Title

Elizabeth Anne Brown, ChemReg International, LLC

Registration Agent

Date

9/17/2003

Con



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WASHINGTON, D.C. 20460

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DATA MATRIX

Product: Bifenthrin Technical Insecticide/Miticide	
	•

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6314/	Oxidation/reduction	45838001	UPI	Own	
830.6315 /	Flammability	45838001	UPI	Own	
830.6316	cxplodability	45838001	UPI	Own	
830.7220 /	Boiling point	45838001	UPI	Own	
830.7370 \	Dissociation constant	45838001	UPI	own	
71-1b (850.2100) 🗸	Avian acute oral toxicity	CITE ALL	FMC, Scotts, Andersons	Pay	
71-2 (850.2200) 🗸	Avian dietary toxicity	CITE ALL	FMC, Scotts, Andersons	Pay	
71-4 (850.2300)	Avian reproduction	CITE ALL	FMC, Scotts, Andersons	Pay	
72-1 (850.1075) 🗸	Fish acute toxicity	CITE ALL	FMC, Scotts, Andersons	Pay	
72-2 (850.1010)	Invertebrate toxicity	CITE ALL	FMC, Scotts, Andersons	Pay	
72-3 (850.1025 - 1055)	Estuarine/marine toxicity	CITE ALL	FMC, Scotts, Andersons	Pay	
72-4 (850.1300)	Invertebrate Chronic toxicity	CITE ALL	FMC, Scotts, Andersons	Pay	
72-4 (850.1350)	Invertebrate chronic toxicity	CITE ALL	FMC, Scotts, Andersons	Pay	
72-5 (850.1400)	Fish life early life cycle	CITE ALL	FMC, Scotts, Andersons	Pay	
141-1 (850.3020) 🛩	Honeybee acute contact trixicity	CITE ALL	FMC, Scotts, Andersons	pay	
81-1 (870.1100)	Acute oral- rat	45654404	UPI	Own	
81-2 (870,1200)	Acute dermal-rabbit/rat	45645505	UPI	Own	
81-3 (870.1300)	Acute inhalation - rat	00155286	FMC	Old	
81-4 (870.2400)	Primary eye irritation - rabbit	00132522	FMC	Old	
81-5 (870.2500)	Primary dermal irritation - rabbit	00132521	FMC	Old	
81-6 (870.2600) 🗸	Dermal sensitization	00132523	FMC	Old	
81-8 (870.6200) 🗸	Acute neurotaxicity	CITE ALL	FMC, Scotts, Andersons	Pay	
82-1 (870.3100) 🗸	90-Day feeding	CITE ALL	FMC, Scotts, Andersons	pay	

Signature	Name and Title	Date
Elizabet are Brown	Elizabeth Anne Brown, ChemReg International, LLC	9/17/2003
Carpater were received	Registration Agent	



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WASHINGTON, D.C. 20460

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DATA MATRIX

Date: September 17, 2003	EPA Rcg No./ File Symbol 70506-18	Page 3 of 4
Applicant's/Registrant's Name and Address:	Product: Bifenthrin Technical Insecticide/Mitici	de
United Phosphorus, Inc.		
423 Riverview Plaza	•	
Trenton, NJ 08611		•
Ingredient: Bifenthrin (PC 128825)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
82-2 (870.3200)	21-Day dermal toxicity - rats	CITE ALL	FMC, Scotts, Andersons	Pay	
82-7 (none)	Subchronic neurotoxicity - rat	CITE ALL	FMC, Scotts, Andersons	pay	
83-1a (870.4100)	Chronic feeding toxicity - rodent	CITE-ALL	FMC, Scotts, Andersons	Pay	
83-1b (870.4100) 🗸	Chronic feeding toxicity - dog	CITE-ALL	FMC, Scotts, Andersons	Pay	
83-2a (870.4200) 🗸	Oncogenicity - rat	CITE-ALL	FMC, Scotts, Andersons	Pay	
83-2b (870.4200) V	Oncogenicity - mouse	CITE-ALL	FMC, Scotts, Andersons	Pay	
83-3a (870.3700) 🗸	Teratogenicity rat	CITE-ALL	FMC, Scotts, Andersons	Pay	
83-3b (870.3700) ~	Teratogenicity rabbit	CITE-ALL	FMC, Scotts, Andersons	Pay	
OPPTS 870.6300 🗸	Developmental Neurotoxicity	Data gap			
84-2 🗸	Mutagenicity studies	CITE-ALL	FMC, Scotts, Andersons	Pay	
84-4 ✓	Other genotoxic effects	CITE-ALL	FMC, Scotts, Andersons	Pay	
85-1 (870.7485) 🗸	General metabolism	CITE-ALL	FMC, Scotts, Andersons	Pay	
85-2	Dermal absorption	CITE-ALL	FMC, Scotts, Andersons	Pay	
161-1	Hydrolysis	CITE ALL	FMC, Scotts, Andersons	Pay	
161-2 🗸	Photodegradation in water	CITE ALL	FMC, Scotts, Andersons	Pay	
162-1 🗸	Aerobic soil metabolism	CITE-ALL	FMC, Scotts, Andersons	Pay	
163-1	Adsorption/desorption	CITE ALL	MC, Scotts, Andersons	Pay	1
164-1 (875.2200)	Field soil dissipation	CITE-ALL	FMC, Scotts, Andersons	Pay	
165-4 🗸	Bioaccumulation in fish	CITE-ALL	FMC, Scotts, Andersons	pay	
Special studies V	Other	CITE ALL	Pyrethroid Working Group	pay	
132-1 (857.2100) √	Foliar residue dissipation	CITE ALL	FMC, Scotts, Andersons	Pay	

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Signature	Name and Title	Date
Ylejaner ance Brown	Elizabeth Anne Brown, ChemReg International, LLC	9/17/2003
TRESPONDENCE REPORTS	Registration Agent	



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•	DATA MATRIX	
Date: September 17, 2003	EPA Reg No./ File Symbol 70506-18	Page 4 of 4
Applicant's/Registrant's Name and Address:	Product: Bifenthrin Technical Insecticide/Mitic	ide
United Phosphorus, Inc.		
423 Riverview Plaza	'	·#
Trenton, NJ 08611		·
Ingredicot: Bifcnthrin (PC 128825)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
133-3 (875.2400, 2500)	Dermal exposure	CITE ALL	UPI is a member of the Ag Re-entry task force; UPI is a member of the Outdoor Residential Task Force	Own	
133-4 (857.2500)	Inhalation exposure	CITE ALL	UPI is a member of the Ag Re-entry task force; UPI is a member of the Outdoor Residential Task Force	Own	
201-1, 202-1 (840.1100, 835.4200)	Spray drift and droplet size	CITE ALL	UPI is a member of the Spray Drift Task Force	Own	
171-4a 🔍	Nature of residue - plants	CITE ALL	FMC	Pay	
171-4b \	Nature of residue - livestock	CITE ALL	FMC	Pay	
171-4c	Residue analytical method - plants	CITE ALL	FMC	Pay	
171-4d /	Residue analytical method - animals	CITE ALL	FMC	Pay	
171-4c /	Residue storage stability	CITE ALL	FMC	Pay	
171-4j > ✓	Magnitude of residues - meat/milk/poultry/egg	CITE ALL	FMC	Pay	
171-4k. /	Magnitude of residues - field crop trials	CITE ALL	FMC, IR-4	Pay	
171-41 \	Magnitude of residues - processed commodities	CITE ALL	FMC	Pay	
171-4m /	Multi-residue method	CITE ALL	FMC	Pay	
165-1 🗸	Confined rotational crop	CITE ALL	FMC	Pay	
165-2 √	Field rotational crop	CITE ALL	FMC	Pay	···

6 N	,	
Signature	Name and Title	Date
Ylizance Ance Brown	Elizabeth Anne Brown, ChemReg International, LLC	9/17/2003
THE PARTIES WALL STORES	Registration Agent	

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U.S. Environmental Protection Agency, 401 M Succe, S.W., Washington	DATA MATRIX	<u></u>
Datc: September 17, 2003	EPA Reg No./ File Symbol 70506-18	Page 1 of 4
Applicant's/Registrant's Name and Address: United Phosphorus, Inc. 423 Riverview Plaza Treaton, NJ 08611	Product: Bifenthrin Technical Insecticide/Miticide	· ·
Ingredient: Bisenthrin (PC 128825)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
4/48/11 to 1944			United Phosphorus Inc (UPI)	Own	
			UPI	Own	
			UPI	Own	•
			UPI	Own	
			UPI	Own	
			UPI	Own	
			UPI	Own	
			UPI	Own	
			UPI .	Own	
			FMC Corp Agricultural Products Group (FMC); The Scotts Co (Scotts); The Andersons Lawn Fertilizer Division, Inc.	pay	
			(Andersons)	<u> </u>	
MANDONE AREA MARKET BUILDING AREA CONTROL OF A			UPI UPI	own	
			FMC, Scotts, Andersons	pay	
			FMC, Scotts, Andersons	Pay	_
			FMC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	Pay	
			UPI	own	
			UPI ·	own	

Signature	Name and Title	Date
Elizabet dace Grown	Elizabeth Anne Brown, ChemReg International, LLC	9/17/2003
THE WARE KNOWN	Registration Agent	



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DATA MATRIX Date: September 17, 2003 EPA Reg No / File Symbol 70506-18 Applicant's/Registrant's Name and Address: United Phosphorus, Inc. 423 Riverview Plaza Trenton, NJ 08611 Ingredient: Bifenthrin (PC 128825)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			UPI	Own	
			UPI	Own	
			UPI	Own	
			UPI	Own	
			UPI	own	
			FMC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	pay	
			UPI	Own	
			UPI	Own	
			FMC	Old	
			FMC	Old	
			FMC	Old	
			FMC	Old	
			FMC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	pay	

Signature	Name and Title	Date
Elizabet dace Grown	Elizabeth Anne Brown, ChemReg International, LLC	9/17/2003
THE THE PARTY NAMED TO	Registration Agent	
EDA E 9670 26 (0.07) C1 1 D 1 1 1 1 1 D 1		



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WASHINGTON, D.C. 20460

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DATA MATRIX Date: September 17, 2003 Page 3 of 4 EPA Reg No / File Symbol 70506-18 Product: Bifenthrin Technical Insecticide/Miticide Applicant's/Registrant's Name and Address: United Phosphorus, Inc. 423 Riverview Plaza Trenton, NJ 08611 Ingredient: Bifenthrin (PC 128825)

Guideline Reference Number	Guideline Study Name	, MRID Number	Submitter	Status	Note
			FMC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	pay	
			FMC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	Pay	
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			FMC, Scotts, Andersons	Pay	
等等的 医二氏性神经炎			FMC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	Pay	
			MC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	pay	
			Pyrethroid Working Group	pay	
			FMC, Scotts, Andersons	Pay	

<u> </u>		
Signature	Name and Title	Date
Marie and a Marie 1	Elizabeth Anne Brown, ChemReg International, LLC	9/17/2003
They such ance Brown	Registration Agent	



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DATA MATRIX				
Date: September 17, 2003	EPA Reg No./ File Symbol 70506-18	Page 4 of 4		
Applicant's/Registrant's Name and Address; United Phosphorus, Inc. 423 Riverview Plaza Trenton, NJ 08611	Product: Bifenthrin Technical Insecticide/Miticia	de		
Ingredient: Bifenthrin (PC 128825)				

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			UPI is a member of the Ag Re-entry task force; UPI is a member of the Outdoor Residential Task Force	Own	,
			UPI is a member of the Ag Re-entry task force; UPI is a member of the Outdoor Residential Task Force	Own	
			UPI is a member of the Spray Drift Task Force	Own	
			FMC	Pay	
			FMC	Pay	
			FMC	Pay	
			FMC	Pay	
			FMC .	Pay	
			FMC	Pay	
			FMC, IR-4	Pay	
			FMC	Pay	
			FMC	Pay	
			FMC	Pay	
			FMC	Pay	

č		·	
	Signature	Name and Title	Date
	Ye : 1 . 1 . A As asses 1	Elizabeth Anne Brown, ChemReg International, LLC	9/17/2003
	Plijaner ane Brown	Registration Agent	
		<u> </u>	



1990 OLD BRIDGE ROAD, SUITE 201 LAKE RIDGE, VIRGINIA 22192-2383

DIRECT: 703-492-7905

Main: 703-492-0445

Fax: 703-492-0668

E-Mail:

brown@chemreg.com

WEB SITES: www.chemreg.com

www.pesticide.net

ELIZABETH A. BROWN, PH.D.

September 5, 2003

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504C)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202-4501

Attention: Ms. Sherada Hobgood

Re: Notification of Other Labeling Revisions. Bifenthrin Technical Insecticide/Miticide,

EPA Reg. No. 70506-18

Dear Sherada:

On behalf of our client, United Phosphorus, Inc., we are notifying for a change in the medical emergency contact phone number and the warranty statement for the above product. This submission is under the notification procedure, as identified in PR Notice 98-10.

As required by PR Notice 98-10 for notifications, enclosed please find the following:

1. Application Form (8570-1)

2. One copy of the product labeling with changes highlighted.

Please let me know if you have any questions about the enclosed items.

Regards,

Elizaner are Brown

Elizabeth Anne Brown

cc: United Phosphorus, Inc.

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ELIZABETH A. BROWN, PH.D.

October 6, 2003

Document Processing Desk (AMEND) Office of Pesticide Programs (7504C) U.S. Environmental Protection Agency Room 266A, Crystal Mail 2 1921 Jefferson Davis Highway Arlington, VA 22202-4501

Attention: Mr. George LaRocca (PM 13)

Application for Label Amendment. Bifenthrin Technical Insecticide/Miticide, EPA Reg. Re:

No. 70506-18

Dear George:

On behalf of our client, United Phosphorus, Inc., enclosed please find an application to amend the label for the above product. This amendment is to add food crop uses, identical to those registered for the substantially similar product EPA Reg. No. 279-3055 (approval date 5/7/2003).

Enclosed with this application please find:

- I. EPA Form 8570-1, Application
- 2. EPA Form 8570-34, Certification with Respect to Citation of Data
- 3. EPA Form 8570-34, Public File and Agency Use copies
- 4. Five (5) copies of the amended labeling, with one copy highlighted to show the changes.

Please let me know if you have any questions or if anything further is needed.

Regards,

Elizabeth Anne Brown

cc: United Phosphorus, Inc.

Elizabeth au Brown

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PRECAUTIONARY STATEMENTS

Hazzards to Humans (and formestic Antimals)
Wanning May to task a swakowad Harmal if Intuited or accorded though the star. Causes modtensing the Intuited. And beautifug dust. And contact with sidn, eyes, or dothing. Remose modtensinated coding and want before mean. Wach throughly with soop and water after harding
and before staring, deteking, or using otheron.

Environmental Hazarda
This postocio is back to find and agentic threateness. To not descrize offsuced containing this protect in the back of the secondary containing the protect in the back of the secondary containing advantage in accordance with the inquisionments of a feational Polishard Discharge Eastendiness System (MPDES) posmit and the permitting advanced has been recibiled in writing prior to discharge. One of discharge efficient consistent, the public of containing advanced in the secondary self-and consistent. For public to contact your disease without previously environmental protection, agents on contact your disease Water Beard or Regional Office of the Environmental Protection Agency.

Do not use or those noor head or open farme.

DIRECTIONS FOR USE To dear New to use that product in a manyor inconsistent with its labeling.

only for formation that as bracecificiostatistics for Terrestrial Notice from the second control of the formation that as braceficiostatistics for Terrestrial Notice food.

Terrestrial Notice food:

Terrestrial Notice food:

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Presidential Lawres (Actual May be used to manufacture end use preducits for use as a spot or crack and crevice between the preducits for use as a spot or crack and crevice beautised Areas: May be used to manufacture end uses between this or shrough which rescent may enter can be treated. Examples of non-food sense beducts gathest enders had or shrough which rescent any enter can be treated. Examples of non-food sense beducts gathest enders, but the common canner, the control of the treated of the treated of the property of the same should reduce gathest enders, bother rooms, president on the particle of the control of the contr

(3) Uses for experienced purposes that are in compliance with U.S. EPA regalmeneris.

Formitistors using this product are responsible for obtaining U.S. EPA legistration for their formulated product which may be labeled for the use patients as found listed on this label.

BIFENTHRIN Techni

Insecticide/Mittcide

FOR FORMULATION USE ONLY

Educative, it carefuel 1: 'detaining' 0-ye' methy if it' cirkero-2.3.0 etilizare-1-property if 89.4%
2.2 circusty decorporate and sales and sales are sales

KEEP OUT OF REACH OF CHILDREN WARNING

FRSTAID | Have the product committee of sides with you when calling a poision commit carrier or doctor, or spoke for treatment.

 Hood eye coan and rênce stonky and gandy with water for 15-20 minutes.
 Remove contact lensing, if present, also the first 5 minutes, then confirms triving eye.
 Call a policien contact center or cocher for treatment advice. Coal a poison control contror or doctor firmsolately for treatment askiva.
 Here poston top a glass of water if take to amistion.
 Do not induce worselfing unless that to do so by a poison control contex or More person to hrush ist.
 If porson is not breathing, call 911 or an anticlation, then give artificial respisation, pretenting mostin-presont, if possible.
 Call a polocor consist consist consist or for histor treatment achies. * Take of contaminated clothing.

• Fitnes skin temediately with penky of water for 15-20 minutes

• Call a polison control center of clothor for treatment schice. • Do not give anything by mouth to an innormations person. H on skin or clothing H in eyes

FOR 24 HOUR EMERGENCY MEDICAL ASSISTANCE, CALL. THE NATIONAL PESTICIDE INFORMATION CENTER 1-800-658-7378

FOR CHENICAL EMERCIBIOTS spill, bast, fire, exposure, or societed call CHENICAL EMERCIBIO 1-600-424-5900

United Phosphorus Inc. 423 Blenstey Para Tremon, NJ 08611

RET CONTENTS

EPA Reg. No. 70506-18 EPA Est. No. 41876-17:1

(#Storage and Disposal Do not contaminate water, both feed by storage and disposal

PESTICION STORAGE

Keep Cut of mach of children and anshrate. Show in original containers only. Show in a cool, sty place and order of mach of children and anshrate Show in original stage, replaces lists and choose and exola excess heat. Conviding upon consistent. After partial stage, replaces lists and choose rightly. Do not not concentrate or of their marries is to do or order to contain and not concentrate to or other contains. The not consistent right of their stage or disponse, in case of spill, annot contact, include area, and keep out animals and suproducted presents. Confine spills.

PESTICIDE DISPOSAL.

Pediculo, windes are took. Do not contaminate water, bod or lead by storage or disposal prediculo windes are took. Do not contaminate water, bod or lead by storage or disposal deposal of encess peatods, spray midme, or inseals is a violation of Foderal law. Dispose of sincess waters or peatods by use according to label devolutes, or contact year State Pesticies or Environmental Control Agency, or the Hazzachus Waste representative at the near-est EM, Reydonal Office for gardence.

CONTRINSER DISPOSAL.

Convisionly entry lines by stating and larging states and bottom to known clarging particles.

Convisionly state and septimized retainment. Then dispose of liter in a senderly landing or by literal estation; it subserved by States and home tauthorishes, it draws is contaminated and carried to retain dispose of it has sente marries.

CONDITIONS OF SALE

AND LIMITATION OF WARRANTY AND LIABILITY

Under Prosphorus, inc. warrants that all the line of delivery, this product will conform to be charrated description, or if it ladds that it will be sent with the ladds will conver the control description, that shokes will convey the heavet, and that each product will be delivered from any banks arecardy the received the control banks are carried.

This is the only warran's made on this product UNITED PHYSPHORYS, INC. EXPRESSIV DISCLAMAS ANY IMPLIED WARRANTES OF MERCHANTIBULTY AND FITHERS FOR A PARTICLUAR PURPOSE AND EXCERT AS SET FORTH IN THE ABOVE PHARATMARY, ANY OTHER
EXPRESS OF MARILED WARRANTIES, BYORN ANYONALEDGES THE USE OF ITS OWN
INDEPENDENT SMILL AND EXPERTISE IN THE SELECTION AND USE OF THE PRODUCT
AND DOES NOT RELY ON ANY ORAL OR WITHTEN STATEMACH'S OR REPRESENTATIONS.

PRECAUTIONARY STA

Warning, May be stall it swellowed, Harnish if kristed or esteached through the skin. Causes mod-tands yes includen, Anol broading dust, Anol contact with skin, eyes, or ciching, Bencoe con-tantisated ciching and wast before nume. Wash throughly with ecop and water after handing and below eating, diteking, or using tobacco. **Effectic Animats**)

Environmental Hazards

This position is that to fish and aquatic invariationals. Do not discharge edition's consistency his product into beast, are amin, provid, established, oceast, or positive where problem beast privates in accordance with the requirements of a National Published Destroyage Emissationa System (NPDES) permit and the permitting authority has been notified in writing pract to discharge. Do not discharge elebrate containing authority has been notified in writing pract to discharge. Do not discharge elebrate containing the doctors of several elebrate provided practically integrated from the discharge elebrate containing authority, for galdature, contact year. State Water Board or Regional Office of the Environmental Protection Agency.

PhysicalChemical Hazards Conxtuss or store near heat or open fame.

DARECTIONS FOR USE

It is a vication of Federal law to tale this product in a massiver incomplished with its labelling.

This material requires further mixing before use.

Only for formulation into an ineactical certaintic cide for Terrestrial Non-Food:
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Formulators using this product are responsible for obtaining U.S. EPA registration for that formulated product which may be labeled for the use patterns as found listed on this label. (3) Uses for experimental purposes that are in compliance with U.S. EPA requirements.

BFENTHRN Technical

Insecticide/Miticide

FOR FORMULATION USE ONLY

KEEP OUT OF REACH OF CHILDREN WARNING

FIRST ALD product combains' of labels with you when calling a potent combat combar or cocker, or point to the terminant.

Call a poison control clente or doctor immediately for treatment ashion.
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 Do not include versiting unless told to do so by a poison control center or.

. Do not give serything by marth to an witchnechus person. E firstrastock

Move porson to fresh ist.
 If person is not broastisty, call 911 or as sercidence, then give self-cal maghaston, preferably snottle-to-mouth, if possible.
 Call a poison control conner or doctor for hither testiment achies.

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 Fleamone contact lenses. If present, other the first 5 mandes, then conduces Italia of contentiated centers.
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• Call a policion control centei or doctor for treasment activos. if on ekin or clocking

FOR 24HOUR EMERGENCY MEDICAL ASSISTANCE, CALL THE MATHOMAL PESTICIDE RECOMMETION CENTER 1-860-688-7378

POR CHEMICAL EMERGENCY: spal sast, first, exposure, or socioent call Chemines | Socioent call

United Phosphorus Inc. C23 Partners Palls Tremon, NJ 08511

EPA Reg. No. 70506-18 EPA Est. No. 41876-74-1

NET CONTENTS:

Storage and Disposed Do not conteminate water, took, or feed by storage and dispose

Newpord of mach of children and animale. Stone in original containers only. Stone in a cood, dry place and stoold excess heart. Caractely open containers. After paries less, recision like and close lightly. On not put concentrate or dishe make fine food or drive torrainers. Do not put concentrate or dishe make fine food or drive torrainers. Do not contain the fine of the first put storage of disposal, in case of egg, and contact, leosate sees, and lange out autiends and unproducing postacions. Contine spills.

PESTICIDE DISPOSAL

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CONTINUES DSPOSAL.

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CONDITIONS OF SALE

AND LIMITATION OF WARRANTY AND LIABILITY
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Please read instructions on rever	se before completing form		For			0, Approval expires 5-31-98	
≎EPA	Unit	ed States		Registration		OPP Identifier Number	
	Environmental	Protection	Agency	Amendme X Other	nt	:	
		ton, DC 20460					
		ilcation for	Pesticide - Sectio				
1. Company/Product Number 70506-18				EPA Product Manager 3, Proposed Classification George LaRocca			
4. Company/Product (Name)			PM #	PM#			
Bifenthin Technical Insecticide/Miticide 5. Name and Address of Applicant (Include ZIP Code)			13	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)			
United Phosphorus, Inc.			(b)(i), my product is	(b)(i), my product is similar or identical in composition and labeling			
423 Riverview Piaza Trenton, NJ 08811			to:	to: EPA Reg No279-3055			
Check if this is a new as	Product Name	Product Name Blienthrin Technical Insecticide/Miticide					
·······		Se	ction - ii				
Amendment - Explain t	elow			labels in respon	se to		
				Agency letter dated Aug. 25, 2003			
Resubmission in respon	nse to Agency letter dated		"Me Too" Ap	plication			
Notification - Explain be	dosu		Other Exp	lain helow			
Trophositor Explained	3077			iaiii Doloti			
Explanation: Use additional	page(s) if necessary. (Fo	r Section I and	Section II.)				
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		Se	ction III				
Material This Product Will Child-Resistant Packaging	De Packaged in: Unit Packaging		Water Soluble Packagin	<u> </u>	2. Type	of Container	
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1. Contact Person (Complete	llems directly below for k			, if necessary, to	process thi	is application.)	
Name Elizabeth Anna Brown		Title			lephone No. (Include Area Code) 3-492-7905		
ынарунгина орт		Authoriz	ed agent	100-48			
I certify that the statements I h		rtification	: Unrefo pro terro com	a Brid camplate	6.	Date Application Received	
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4. Typed Name			5. Date			••••	
Elizabeth Anne Brown		October	t4, 2003	•		• • • • • • • • • • • • • • • • • • • •	
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G.LAROCCA 10-16-03

1990 OLD BRIDGE ROAD, SUITE 201 LAKE RIDGE, VIRGINIA 22192-2383

Direct: 703-492-7905 Main: 703-492-0445

Fax:

703-492-0445 703-492-0668 E-Mail:

brown@chemreg.com

WEB SITES: www.chemreg.com

www.pesticide.net

ELIZABETH A. BROWN, PH.D.

Document Processing Desk Office of Pesticide Programs (7504C) U.S. Environmental Protection Agency Room 266A, Crystal Mall 2 1921 Jefferson Davis Highway Arlington, VA 22202-4501

Attention: Mr. George LaRocca (PM 13)

Re: Final Printed Labeling

Bifenthrin Technical Insecticide/Miticide, EPA Reg. No. 70506-18

Dear George:

On behalf of our client, United Phosphorus, Inc., enclosed please find 3 copies of the final printed labeling for the above product, per the notice of registration dated August 25, 2003. Please let me know if you have any questions.

Regards,

Elizabeth Anne Brown

cc: United Phosphorus, Inc.

CONSULTANTS TO SUCCESSSM

Over One Hundred and Fifty Years of Combined Experience Assisting Chemical, Pesticide, Bio-Chemical and Life Science Companies on a Wide Range of Issues, Including Regulatory Strategies, Registration, Data Support and Compensation, Quality Assurance, Study Design and Scientific Matters.

Please read instructions on reverse before completing	form				0, Approval expires 5-31-98
	United States			gistration	OPP Identifier Number
SEPA Environm	ental Protecti	on Agency	i — l	nendment her	
w	eshington, DC 20			ner	
	Application	for Pesticide - 5			
Company/Product Number 70506-18		George Lai	xduct Manager Rocca	3. Propos	ed Classification
Company/Product (Name)		PM #		Non	e Restricted
Bilenthrin Technical Insecticide/Miticide 5. Name and Address of Applicant (Include ZIP	Codel	13 6. Expedit	eri Raview. in a	CCOrdance with FIFE	BA Section 3(c)(3)
United Phosphorus, Inc.	0000,	(b)(l), my pr	oduct is similar o	or identical in compo	sition and labeling
423 Riverview Plaza Trenton, NJ 08611		to: EPA Reg N	la.		
Check if this is a new address		Product Na	me		·····
		Section - II			
Amendment – Explain below			d printed labels is	n response to	
			ncy letter dated		
Resubmission in response to Agency lette	r daled	"Mo	Too" Application	1	
X Notification – Explain below		Othe	er – Explain belo	w	
Explanation: Use additional page(s) if necessal Notification of Other Labeling Revisions per PR	ry. (For Section I Notice 98-10.	and Section II.)			
This notification is consistent with the provisions to the labeling or the confidential statement of fo	of PR Notice 98-1	0 and EPA regulation of impodessiand that	is at 40 CFR 152 It is a violation o	2.46, and no other ch	nanges have been mede. Of to willfully make easy
false statement to EPA, I further understand the	t if this notification	is not consistent with	the terms of PR	Notice 98-10 and 4	0 CFR 152.46. this
product may be in violation of FIFRA and I may	be subject to enior	cement action and pe Section III	naltes under se	ctions 12 and 14 of	FIFRA.
Material This Product Will be Packaged in:		Section in			
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be submitted Unit Packaging	wgt. containe	r Package wgt	contai	iner L Oth	er (Specify)
3. Location of Net Contents Information Label Container	4. Size(s) Retail Container		5. Location of lab	
6. Manner In Which Label Is Affixed to Product	<u> </u>	nograph	Ot	her	companying product
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	Ste	nclied Section IV			
Contact Person (Complete items directly below	w for identification		ntacted, if neces	sary to procees this	s annicelian)
Name	Titie	3		Telephone Ne. (In	
Elizabeth Anne Brown	Aut	mReg International, i norized agent	rrc	703-492-7905	*****
I certify that the statements I have made on this fo	Certification	iente thereto ceo troc	ncoupate and con		Date Application Received
I acknowledge that any knowingly false or mislead both under applicable law					****
2. Signature	3.			••••	(Starhped)
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4. Typed Name	5. E	Date			••••
Eilzabeth Anne 8rown	Sep	tember 5, 2003		0-	•• ••
EPA Form 8570-I (Rev. 8-94) Previous editions ar	re obsolete.		White - EPA F	ile Copy (Original)	Yellow - Applicant Copy

Bifenthrin Technical Insecticide/Miticide

FOR FORMULATION USE ONLY

ACTIVE INGREDIENT:	
Bifenthrin: (2-methyl[1,1'-biphenyl]-3-yl) methyl 3-(2-chtoro-3,3,3-trifluoro-1-propenyl)	
-2,2-dimethylcyclopropanecarboxylate*	99.4%
OTHER INGREDIENTS	0.6%
TOTAL	
,	

^{*}Cis isomers 97% minimum, trans isomers 3% maximum.

KEEP OUT OF REACH OF CHILDREN WARNING

United Phosphorus Inc. 423 Rivarview Plaza Trenton, NJ 08611 EPA Reg. No. 70506-18 EPA Est. No.

Heve the product conti	FIRST AID alner or label with you when calling a poison control center or doctor, or going for
If swallowed	 Cail a polson control center or doctor immediately for treatment advice. Have person sip a glass of water If able to swallow. Do not induce vomiting unless told to do so by a polson control center or doctor. Do not give give anything by mouth to an unconscious person.
If Inhated	 Move person to fresh air. If person is not breathing, cail 911 or an ambulance, then give ertificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
if on skin or clothing	Take off contamineted ciothing. Rinse skin immediately with plenty of water for 15-20 minutes Cell a poison control center or doctor for treatment advice.
If in eyes	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Cell a poison control center or doctor for freatment advice.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL THE NATIONAL PESTICIPE INFORMATION CENTER 1-800-858-7378

PRECAUTIONARY STATEMENTS Hazards to Humans (and Domestic Animals) Warning

May be fatal if swallowed. Hermful if inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid breathing dust. Avoid contact with skin, eyes, or ciothing. Remove contaminated clearing and webble before reuse. Wash thoroughly with soap and water after handling and before eeting, drinking, or using tobacco.

Environmental Hazards

This pesticide is toxic to fish and aquatic invertebrates. Do not discharge efficient containing this product • • Into lakes, streams, ponds, estuaries, oceans, or public waters unless in accordance with the requirements of a National Pollulant Discharge Eliminations System (NPDES) permit end the permitting authority has been notified in writing prior to discharge. Do not discharge efficient containing this product to sewer

systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the Environmental Protection Agency.

Physical/Chemical Hazards

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

This material regulres further mixing before use

Only for formulation into an insecticide/miticide for

Terrestrial Non-Food:

Termiticide and Soli Contact Nonfumigation Treetment Wood Treatment and Protection Outdoor Insect Control Omamental plants, trees, shrubs, and vines (woody) Residential Lawns Indoor Insect Control

Non-Food/Feed Areas: May be used to manufacture end-use products for use es a spot or crack and crevice treatment in non-food areas. Similar areas where insects hide or through which insects may enter can be treated. Examples of non-food areas include: garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, mechine rooms, boller rooms, garages, mop closets, and storage (after canning and bottling).

Food/Feed Areas: May not be used to manufacture products for use in food/feed areas. Do not use in food areas of food handling establishments, restaurants, or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed or fecility is in operation. Serving areas are areas where prepared food are served such as dining rooms but excluding areas where foods may be prepared or held. In the home all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed foods should be covered or removed. Examples of food areas are areas for receiving, storage/packing (canning, bottling, wrapping, boxing), preparing, edible westes, storage and enclosed processing systams (mills, datries, edible oils, syrups). Serving areas (when food is exposed and facility is in operation) also would be considered a food area.

- (2) Uses for which U.S. EPA has accepted the required data and/or citation of data that the formulator has submitted in support of registration; and
- (3) Uses for experimental purposes that are in compliance with U.S. EPA requirements.

Formulators using this product are responsible for obtaining U.S. EPA registration for their formulated product which may be labeled for the use patterns as found listed on this label.



Storage and Disposal

Do not contaminate water, food, or feed by storage and disposal.

PESTICIDE STORAGE

Keep out of reach of children and enimals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminete other pesticides, fertilizers, water, food, or feed by storage or disposal.

in case of splil, avoid contact, isolate area, and keep out animals and unprotected persons. Confine splils.

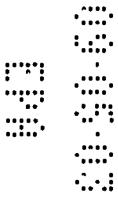
PESTICIDE DISPOSAL

Pesticide wastes ere toxic. Do not contaminate water, food or feed by storage or disposal. Improper disposel of excess pesticide, spray mixture, or rinsate is a violation to Federal law. Dispose of excess waste or pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearast EPA Regional Office for guidance.

CONTAINER DISPOSAL

Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residua into application equipment. Then dispose of liner in a sanitary landfill or by incineration, if allowed by State and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300

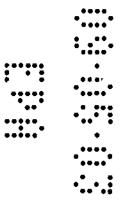


CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

United Phosphorus, inc. warrants that at the time of delivery, this product will conform to its chemical description on the label, that it will pass without objection in the trade under the contract description, that seller will convey title hereto, and that such product will be delivered free from any lawful security interest, lien or encumbrance.

This is the only warranty made on this product. UNITED PHOSPHORUS, INC. EXPRESSLY DISCLAIMS ANY IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND, EXCEPT AS SET FORTH IN THE ABOVE PARAGRAPH, ANY OTHER EXPRESS OR IMPLIED WARRANTIES. BUYER ACKNOWLEDGES THE USE OF ITS OWN INDEPENDENT SKILL AND EXPERTISE IN THE SELECTION AND USE OF THE PRODUCT AND DOES NOT FIELY ON ANY ORAL OR WRITTEN STATEMENTS OR REPRESENTATIONS.

EPA Approved. 08/25/2003 Revision (notification): 09/05/2003





U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505C) 1200 Pennsyivania Ave. N.W.

Washington, D.C. 20004

EPA Reg. Number: 70506-18

Term of Issuance:

Date of Issuance:

Conditional

AUG 25 2003

NOTICE OF PESTICIDE:

x Registration

_ Reregistration (under FIFRA, as amended)

Name of Pesticide Product:

Bifenthrin Technical Insecticide/Miticide

Name and Address of Registrant linclude ZIP Codei:

United Phosphorus, Inc. 423 Riverview Plaza Trenton, NJ 08611

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodentitide

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A), subject to the following provisions:

- You must submit and/or cite all data required for registration/reregistration of your product 1. under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of you product under FIFRA section 4.
- 2. You have applied for the registration of a product containing the active ingredient bifenthrin. The Agency has recently conditioned the original registration of which you are a follow-on with a new data requirement. A copy of EPA's letter, dated May 7, 2003, notifying FMC Corporation of the new data requirement is enclosed. As stated in paragraph I, this registration will also be conditioned with that data requirement. Accordingly, you must take steps to ensure that these required data are submitted. The steps could include generating and submitting the data yourself, or you may offer to share with other registrants the cost of conducting testing.

The data requirement being imposed on this registration is as follows:

Signature of Accor	neine Official:

AUG 25 2003

want Starton, for George T. La Rocca

Bifenthrin Technical Insecticide/Miticide

FOR FORMULATION USE ONLY

ACCEPTED
with COMMENTS
In EPA Letter Dated:

AUG 25 2003

Under the Federal Insecticide, Fungicide, and Rodeniteide Act, as emended, for the pesticide registered under EPA Reg. No.

ACTIVE INGREDIENT:	Columbia Control of the Control of t
Bifenthrin: (2-methyl[1,1'-biphenyl]-3-yl) methyi 3-(2-chloro-3,3,3-trifiuoro	-1-propenyi)
-2,2-dimethylcyclopropanecarboxylate*	99,4%
OTHER INGREDIENTS	
TOTAL	

KEED OUT OF BEACH OF CHILD

KEEP OUT OF REACH OF CHILDREN WARNING

United Phosphorus Inc. 423 Riverview Piaza Trenion, NJ 08611

*Cis isomers 97% minimum, trans isomers 3% maximum.

EPA Reg. No. 70506-EPA Est. No.

······································	FIRST AID
Have the product conta treatment.	ainer or label with you when calling a poison control center or doctor, or going for
if swallowed	 Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if abie to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor.
+e +_1	Do not give give anything by mouth to an unconscious person.
if inhaled	 Move person to fresh air. if person is not breathing, cail 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
if on skin or clothing	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes Call a poison control canter or doctor for treatment advice.
lf in eyes	 Hold eye open and rinse slowly end gently with water for 15-20 minutes. Remove contact ienses, if present, after the first 5 minutes, then continue rinsing eye. Cail a poison control center or doctor for treelment advice.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL CHEMTREC 1-800-424-9300

PRECAUTIONARY STATEMENTS Hazards to Humans (and Domestic Animals) Warning

May be fatal if swallowed. Harmful if inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid breathing dust. Avoid contact with skin, eyes, or clothing. Remove contaminated ciothing and wash before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, ថ្មីក៏ប៉ឺឡឺកិច្ចិ tobacco.

Environmental Hazards

This pesticide is toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into takes, streams, ponds, estueries, oceans, or public waters unless in accordance with the requirements of a National Poliulant Discharge Eliminations System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer

systems without previously notifying the sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the Environmental Protection Agency.

Physical/Chemical Hazards

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

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This material regulres further mixing before use

Only for formulation into an insecticide/miticide for

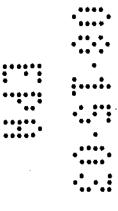
Terrestrial Non-Food:
Termilicide and Soil Contact Nonfumigation Treatment Wood Treatment and Protection
Outdoor Insect Control
Omamental plants, trees, shrubs, and vines (woody)
Residential Lawns
Indoor Insect Control

Non-Food/Feed Areas: May be used to manufacture end-use products for use as a spot or crack and crevice treatment in non-food areas. Similar areas where insects hide or through which insects may enter can be treated. Examples of non-food areas include: garbage rooms, lavatories, floor drains (to sewers), entiries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning and bottling).

Food/Feed Areas: May not be used to manufacture products for use in food/feed areas. Do not use in food areas of food handling establishments, restaurants, or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed or facility is in operation. Serving areas are areas where prepared food are served such as dining rooms but excluding areas where foods may be prepared or held. In the home all food processing surfaces and utensits should be covered during treatment or thoroughly washed before use. Exposed foods should be covered or removed. Examples of food areas are areas for receiving, storage/packing (canning, bottling, wrapping, boxing), preparing, edible wastes, storage and enclosed processing systems (mills, dairies, edible oils, syrups). Serving areas (when food is exposed and facility is in operation) also would be considered a food area.

- (2) Uses for which U.S. EPA has accepted the required data and/or citation of data that the formulator has submitted in support of registration; and
- (3) Uses for experimental purposes that are in compliance with U.S. EPA requirements.

Formulators using this product are responsible for obtaining U.S. EPA registration for their formulated product which may be labeled for the use patterns as found listed on this label.



Storage and Disposal

Do not contaminate water, food, or feed by storage and disposal.

PESTICIDE STORAGE

Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace ilds and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

In case of spill, evold contact, isojate erea, and keep out animels and unprotected persons. Confine spills.

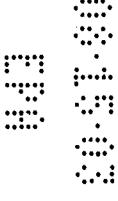
PESTICIDE DISPOSAL

Pesticide wastes are toxic. Do not contaminate water, food or faed by storage or disposal. Improper disposal of excess pesticida, spray mixture, or rinsate is a violation fo Faderal lew. Dispose of excess waste or pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Weste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL

Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration, if eflowed by State and local authorities. It drum is contamineted and cannot be reused, dispose of in the same manner.

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300



CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE:

Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

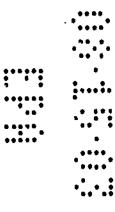
The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of United Phosphorus or Seiler. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold United Phosphorus and Seiler harmless for any cialms relating to such factors.

United Phosphorus warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seiler or United Phosphorus, and Buyer and User assuma the risk of any such use. UNITED PHOSPHORUS MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

in no event shall United Phosphorus or Seiler be ilable for any incidental, consequential or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF UNITED PHOSPHORUS AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE, AT THE ELECTION OF UNITED PHOSPHORUS OR SELLER, THE REPLACEMENT OF THE PRODUCT, OR COMPENSATION LIMITED TO DAMAGES NOT EXCEEDING THE FARE MARKET PURCHASE PRICE, AND SHALL NOT INCLUDE INCIDENTAL OR CONSEQUENTIAL DAMAGES.

United Phosphorus and Seiler offer this product, and Buyer and User eccept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by the duly authorized representative of United Phosphorus.

Pending, not EPA Approved. 08/15/2003



1990 OLD BRIDGE ROAD, SUITE 201 LAKE RIDGE, VIRGINIA 22192-2383

DIRECT: 703-492-7905 MAIN:

703-492-0445

703-492-0668

E-MAIL:

brown@chemreg.com

WEB SITES: www.chemreg.com

www.pesticide.net

ELIZABETH A. BROWN, PH.D.

August 15, 2003

Fax:

Document Processing Desk U.S. Environmental Protection Agency (7505C)

U.S. Environmental Protection Agency

Room 266A, Crystal Mall 2 1921 Jefferson Davis Highway

Arlington, VA 22202-4501

Attn: George LaRocca (PM 13)

Bifenthrin Technical Insecticide/Miticide (EPA File Symbol 70506-RI) Re:

Response to Agency letter of August 6, 2003

Dear George:

On behalf of our client, United Phosphorus, Inc., this letter is in response to the Agency letter of August 6, 2003, regarding the above application for registration.

As a condition of registration, United Phosphorus, Inc. (UPI) agrees to provide the additional data required to support registration, as identified in your letter (data requirement OPPTS 870,6300, developmental neurotoxicity study). UPI will offer to cost share with other registrants. Please provide me with a copy of the data call-in sent to the other registrants or other documentation of the Agency requirement to other registrants. (Note: Colors Fully reviewed FML 1244 (5/1/03) and defunited if could

Attached please find data matrix forms (EPA Form 8570-35), revised to identify data supporting Guideline 84-4 (other genotoxic effects), as required in the Agency letter. Also enclosed is a revised Certification with Respect to Citation of Data (EPA Form 8570-34); offers have been sent to other registrants to address the additional data requirement. The data matrix also has been revised to reflect the MRIDs of the studies submitted by UPI in support of this application.

CONSULTANTS TO SUCCESS**

Over One Hundred and Fifty Years of Combined Experience Assisting Chemical, Pesticide, Bio-Chemical and Life Science Companies on a Wide Range of Issues, Including Regulatory Strategies, Registration, Data Support and Compensation, Quality Assurance, Study Design and Scientific Matters.



Letter to G. LaRocca, August 15, 2003, page 2

Also enclosed are five copies of the draft label, revised as required in the Agency letter, along with one highlighted copy to identify the changes. Final printed labeling will be submitted once the Agency has registered this product and prior to release of any product for shipment.

Thank you for your attention to this matter. Please contact me immediately if there are any questions or if anything further is needed.

Regards,

Elizabeth die Brown

Elizabeth Anne Brown

cc: United Phosphorus, Inc.

Piesse read instructions on reve	ree before completing form	<u></u>	<u>Fo</u>			0, Approval expires 5-31-98
4 · · · · · · · · · · · · · · · · · · ·	Unit	ed States		Registrati	c л	OPP Identifier Number
SEPA	Environmental	Protection	Agency	Amendme X Other	nt	
	Washing	ton, DC 20460		X Outer		
		lication for	Pesticide – Sectio			
Company/Product Number 70506-RI).		2. EPA Product M George LaRocca	anager	3. Propos	ed Classification
Company/Product (Name Bifenthrin Technical Insectici			PM# 13	**********	Non	e Restricted
5. Name and Address of Appunited Phosphorus, Inc. 423 Riverview Plaza Trenion, NJ 08611	plicant (Include ZIP Code)		6. Expedited Rev	low. In accordants similar or identic	ce with FIFI al in compo	RA Section 3(c)(3) osition and labeling
Check If this is a new a	ddress		Product Name	 		
		Sa	ction - II			
Amendment Explain	below			d labels in respon	se lo	
X Resubmission in respon	nse to Agency letter dated	Aug. 6, 2003	Agency lett			
Notification – Explain b	elow		Other - Exp	woled niek		,
Explanation: Use additional	page(s) if necessary. (Fo	r Section I and	Section II.)			
		Se	ection III			
t. Material This Product Will Child-Resistant Packaging	be Packaged In: Unit Packaging		Water Solvble Packagin	10	2. Type	of Container
Yes	Yes		Yes	'B	Mei	
No No	No	ŀ	No No		Pla	-
*Certification must	it "Yes"	No. per	 ! "Yes"	No. per	Gia Par	
be submitted	Unit Packaging wgt.		Package wgt	container		er (Specify)
					<u> </u>	
3. Location of Net Contents Label	Container	4. Bize(s) Re	etail Container		n Label	el directions companying product
6. Manner in Which Label is	Affixed to Product	Lithoga		Other	er manifel all	ANTIQUE TO SERVICE
		Paper (1
		Stencile	ection IV			
1. Contact Person (Complete	e Items directly below for Id	 		i, il necessary, to	process this	s application.)
Name Elizabeth Anne Brown		Tille ChemR	eg International, LLC ed agent	Teleph		clude Area Code)
	Ces	tification	AA AMALII	1	6.	Date Application
I certify that the statements I I I acknowledge that any knowl both under applicable taw	have made on this form and	all attachments ement may be p	thereto are true, accurate true, acc	e and complete. risenment or		Received
2. Signature		3, Titla				(Staffiped)
Heigher and B	rown		eg International, LLC red Agent			•••••
4. Typed Name		5. Date	 			• • • • • • • • • • • • • • • • • • • •
Elizabeth Anne Brown			15, 2003		•	
EPA Form 8570-1 (Rev. 8-94)	Previous editions are obsolu	ete.	White	- EPA File Copy (Original)	Yellow - Applicant Copy

•:•:



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registration and 0.25 hours per response for reregistration and special necessary forms. Send comments regarding burden estimate or any oburden to: Director, OPPE information Management Division (2137), t 20460. Do not send the completed form to this address.	ther aspect of this c	ollection of information, including suggestions for reducing ti	he		
Certification with	Respect to Citat	tion of Data			
Applicant's/Registrant's Name, Address, and Telephone Number United Phosphorus, Inc. 423 Riverview Plaza Trenton, NJ 08611 609-392-8200		EPA Registration Number/File Symbol 70506-Ri	-		
Active ingredient(s) and/or representative test compound(s) bitenthrin		Date August 14,2003			
General Use Pattem(s) (list all those claimed for this product using 40 Terrestrial Non-Food, Domestic Outdoor, Indoor	CFR Part 158)	Product Name Bifenthrin Technical Insecticide/Miticide			
NOTE: if your product is a 100% repackaging of another purchased E submit this form. You must submit the Formulators Exemption State	PA-registered produ ment (EPA Form 85	ict labeled for all the same uses on your label, you do not ne 570-27)	ed		
f am responding to a Data-Call-in Notice, and have included a should be used for this purpose).	with this form a list o	f companies sent offers of compensation (the Data Matrix fo	m		
SECTION I: METHOD OF DA	TA SUPPORT (Ch	eck one method only)			
I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose) I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Deta Matrix form must be used).					
SECTION II: C	GENERAL OFFER T	TO PAY			
(Required if using the cite-all method, or when using the cite-all option	under the selective r	method to satisfy one or mora data requirements)			
i hereby offer and agree to pay compensation, to other person	ns, with regard to the	e approval of this application, to the extent required by FIFR/	Α.		
SECTION	fif: CERTIFICATIO	МС	,		
f cartify that this application for registration, this form for reregistration for registration, the form for reregistration, or the Data-C selective method is indicated in Section 1, this application is supported product or an identical or substantially similar product, or one or more one authoritied under the data requirements in effect on the date of appropriate or similar composition and uses.	call-in response, in a by all data in the Ag of the ingredients in oval of this application	addition, if the cite-all option or cite-all option under the gency's files that (1) concern the properties or effects of this this product; and (2) is a type of data that would be required on it the application sought the initial registration of a product	to t of		
i certify that for each exclusive use study cited in support of this obtained the written permission of the original data submitted to cite that		gistration, that I am the original data submitter or that I have			
I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (e) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods obeligibility for compensation have expired for the study; (d) the study is in the public literature; or (a) I have notified in writing the company that submitted the study and have offered (I) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (II) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.					
i certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(t)(F) and/or 3(c)(2)(B) of FIFRA ere available and will be submitted to the Agency upon request. Should, fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of the product in conformity with FIFRA.					
f certify that the statements i have made on this form and a knowingly faise or misleading statement may be punishable by fin	II attachments 10 it e or imprisonment	i are true, accurate, end complete. I acknowledge that ent of both under applicable law	ny		
Signature	Date August 14,2003	Typed or Printed Nama and Title			
am M. Jellen	TOBOSE ITIEUUU	Technical Director			

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DATA MATRIX

· ·		
Date: August 14, 2003	EPA Reg No./ File Symbol	Page 1 of 4
	70506-18	
Applicant's/Registrant's Name and Address:	Product: Bifenthrin Technical Insecticide/Mitici	ie
United Phosphorus, Inc.		•
423 Riverview Plaza		
Treoton, NJ 08611		
Ingredient: Bifenthrin (PC 128825)		

Guideline Reference Number	Guideline Study Name .	MRID Number	Submitter	Status	Note
61-1 (830.1550)	Chemical identity	45654401	United Phosphorus Inc (UPI)	Own	
61-2a (830.1620)	Starting materials and manufacturing process	45654401	UPI	Own	
61-2b (830.1670)	Formation of impurities	45654401	UPI	Own	
62-1 (830.1700)	Preliminary analysis	45654401	UPI	Own	
62-2 (830.1750)	Certification of limits	45654401	UPI	Own	
62-3 (830.1800)	Analytical method	45654401	UPI:	Own	
63-2 (830.6302)	Color	45654402	UPI	Own	
63-3 (830,6303)	Physical state	45654402	UPI	Own	
63-4 (830.6304)	Odor	45654402	UPI	Own	
None (830.7050)	UV/Visible Absorption	CITE ALL	FMC Corp Agricultural Products Group (FMC); The Scotts Co (Scotts); The Andersons Lawn Fertilizer Division, Inc. (Andersons)	pay	
63-5 (830.7220)	Melting point	45838001	UPI	own	
63-7 (830.7300)	Density	45838001, 46008501, 46008502	UPI	own	
63-8 (830.7840) • • • •	• Solubility	CITE ALL	FMC, Scotts, Andersons	pay	
63-9 (830.7950)	Vapor pressure	CITE ALL	FMC, Scotts, Andersons	Pay	
63-10 (830.7370)	Dissociation constant	CITE ALL	FMC, Scotts, Andersons	Pay	
63-11 (830.7550)	Octanol/water partition	CITE ALL	FMC, Scotts, Andersons	Pay	
63-12 (830.7000)	pH	45838001	UPI	own	
63-13 (839.6318)	Nabilby:	45654403	UPI	own	

Signature	Name and Title	Date
Heigher are Grown	Elizabeth Anne Brown, ChemReg International, LLC	8/14/2003
THIS WILL ASSESSED	Registration Agent	



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WASHINGTON, D.C. 20460

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DATA MATRIX Date: August 14, 2003 Page 2 of 4 EPA Reg No./ File Symbol 70506-18 Applicant's/Registrant's Name and Address: Product: Bifenthrin Technical Insecticide/Miticide United Phosphorus, Inc. 423 Riverview Plaza Trenton, NJ 08611 Ingredient: Bifenthrin (PC 128825)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6314	Oxidatinn/reduction	45838001	UPI	Own	
830.6315	Flammability	45838001	UPI	Own	
830.6316	explodability	45838001	UPI	Own	
830.7220	Boiling point	45838001	UPI .	Own	
830.7370	Dissociation constant	45838001	UPI	own	
71-1b (850.2100)	Avian acute oral toxicity	CITE ALL	FMC, Scotts, Andersons	Pay	
71-2 (850.2200)	Avian dictary toxicity	CITE ALL	FMC, Scotts, Andersons	Pay	
71-4 (850.2300)	Avian reproduction	CITE ALL	FMC, Scotts, Andersons	Pay	
72-1 (850.1075)	Fish acute toxicity	CITE ALL	FMC, Scotts, Andersons	Pay	
72-2 (850.1010)	Invertebrate toxicity	CITE ALL	FMC, Scotts, Andersons	Pay	
72-3 (850.1025 - 1055)	Estuarine/marine toxicity	CITE ALL	FMC, Scotts, Andersons	Pay	
72-4 (850.1300)	Invertebrate Chronic toxicity	CITE ALL	FMC, Scotts, Andersons	Pay	
72-4 (850.1350)	Invertebrate chronic toxicity	CITE ALL	FMC, Scotts, Andersons	Pay	
72-5 (850.1400)	Fish life early life cycle	CITE ALL	FMC, Scotts, Andersons	Pay	
141-1 (850,3020)	Honeybee acute contact toxicity	CITE ALL	FMC, Scotts, Andersons	pay	
31-1 (870.1100)	Acute oral- rat	45654404	UPI	Own	
31-2 (870.1200)	Acute dermal-rabbit/rat	45645505	UPI	Own	
31-3 (870.1300)	Acute inhalation – rat	00155286	FMC	Old	
31-4 (870.2400)	Primary eye irritation - rabbit	00132522	FMC	Old	
31-5 (870.2500)	Primary dernial irritation – rabbit	00132521	FMC	Old	
81-6 (870.2600)	Dermal sensitization	00132523	FMC	Old	
81-8 (870.6200).	Agute neurotoxicity	CITE ALL	FMC, Scotts, Andersons	Pay	
82-1 (870 3 100)	90-Day feeding	CITE ALL	FMC, Scotts, Andersons	pay	

Signature	Name and Title	Date
Ylejapier ance Brown	Elizabeth Anne Brown, ChemReg International, LLC	8/14/2003
Legalier arke Arowa	Registration Agent	<u> </u>

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DATA MATRIX EPA Reg No./ File Symbol 70506-18

Product: Bifenthrin Technical Insecticide/Miticide

Page 3 of 4

Applicant's/Registrant's Name and Address: United Phosphorus, Inc.

423 Riverview Plaza Trenton, NJ 08611

Date: August 14, 2003

Ingredient: Bifenthrin (PC 128825)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
82-2 (870.3200)	21-Day dermal toxicity - rats	CITE ALL	FMC, Scotts, Andersons	Pay	
82-7 (none)	Subchronic neurotoxicity - rat	CITE ALL	FMC, Scotts, Andersons	pay	
83-1a (870.4100)	Chronic feeding toxicity - rodent	CITE-ALL	FMC, Scotts, Andersons	Pay	
83-1b (870.4100)	Chronic feeding toxicity - dog	CITE-ALL	FMC, Scotts, Andersons	Pay	
83-2a (870.4200)	Oncogenicity - rat	CITE-ALL	FMC, Scotts, Andersons	Pay	
83-25 (870.4200)	Oncogenicity - mouse	CITE-ALL	FMC, Scotts, Andersons	Pay	
83-3a (870.3700)	Teratogenicity - rat	CITE-ALL	FMC, Scotts, Andersons	Pay	
_83-3b (870.3700)	Teratogenicity - rabbit	CITE-ALL	FMC, Scotts, Andersons	Pay	
OPPTS 870.6300	Developmental Neurotoxicity	Data gap			
84-2	Mutagenicity studies	CITE-ALL	FMC, Scotts, Andersons	Pay	
84-4	Other genotoxic effects	CITE-ALL	FMC, Scotts, Andersons	Pay	_
85-1 (870.7485)	General metabolism	CITE-ALL	FMC, Scotts, Andersons	Pay	
85-2	Dermal absorption	CITE-ALL	FMC, Scotts, Andersons	Pay	
161-1	Hydrolysis	CITE ALL	FMC, Scotts, Andersons	Pay	
161-2	Photodegradation in water	CITE ALL	FMC, Scotts, Andersons	Pay	
162-1	Aerobic soil metabolism	CITE-ALL	FMC, Scotts, Andersons	Pay	
163-1	Adsorption/desorption	CITE ALL	MC, Scotts, Andersons	Pay	
164-1 (875.2200)	Field soil dissipation	CITE-ALL	FMC, Scotts, Andersons	Pay	
165-4	Bioaccumulation in fisb	CITE-ALL	FMC, Scotts, Andersons	рау	
Special studies • • •	•• Other	CITE ALL	Pyrethroid Working Group	pay	
132-1 (857.2100)	Foliar residue dissipation	CITE ALL	FMC, Scotts, Andersons	Pay	

89

Signature Ylijower Anne Brown Name and Title
Elizabeth Anne Brown, ChemReg International, LLC
Registration Agent

Date 8/14/2003



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U.S. Environmental Protection Agency, 401 M Street, S.W., Washington DC 20460. Do not send the form to this address.

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Date: August 14, 2003	EPA Reg No./ File Symbol 70506-18	Page 4 of 4
Applicant's/Registrant's Name and Address:	Product: Bifenthrin Technical Insecticide/M	iticide
United Phosphorus, Inc.		
423 Riverview Plaza		
Trenton, NJ 08611		
Ingredient: Bifenthrin (PC 128825)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
133-3 (875.2400, 2500)	Dermal exposure	CITE ALL	UPI is a member of the Ag Re-entry task force; UPI is a member of the Outdoor Residential Task Force	Own	
133-4 (857.2500)	Inhalation exposure	CITE ALL	UPI is a member of the Ag Re-entry task force; UPI is a member of the Outdoor Residential Task Force	Own	
201-1, 202-1 (840.1100, 835.4200)	Spray drift and droplet size	CITE ALL	UPI is a member of the Spray Drift Task Force	Own	

9

Signature Ylijanee Anne Grawn Name and Title
Elizabeth Anne Brown, ChemReg International, LLC
Registration Agent

Date 8/14/2003





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Date: August 14, 2003 EPA Reg No / File Symbol 70506-18 Applicant's/Registrant's Name and Address: United Phosphorus, Inc. 423 Riverview Plaza Trenton, NJ 08611 Ingredient: Bifenthrin (PC 128825)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter .	Status	Note
			United Phosphorus Inc (UPI)	Own	
			UPI '	Own	
			.UPI	Own	
			UPI	Own	
			UPI	Own	
			UPI	Own	
			UPI	Own	
			UPI	Own	
			UPI	Own	
			FMC Corp Agricultural Products Group (FMC); The Scotts Co (Scotts); The Andersons Lawn Fertilizer Division, Inc. (Andersons)	pay	
			UPI	own	i i
			UPI	own	
			FMC, Scotts, Andersons	pay	
			FMC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	Pay	
			UPI	own	
			UPI	own	

Signature	Name and Title	Date
Year and Marine	Elizabeth Anne Brown, ChemReg International, LLC	8/14/2003
Phipseel and Brown	Registration Agent	į
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Date: August 14, 2003 EPA Reg No./ File Symbol 70506-18 Applicant's/Registrant's Name and Address: United Phosphorus, Inc. 423 Riverview Plaza Trenton, NI 08611 Ingredient: Bifenthrin (PC 128825)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			UPI	Own	
			UPI	Own	
			UPI	Own	
			UPI	Own	
			UPI	own	
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Signature	Name and Title	Date
Elizabet ane Brown	Elizabeth Anne Brown, ChemReg International, LLC	8/14/2003
Cappedo War 1944	Registration Agent	
ED1 E 9570 25 /0 07) F1 1 1		

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Public File Copy



UNITED STATES ENVIRONMENTAL PIECTION AGENCY 401 M Street, S.W.

WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration and special review activities, including time for reading the instruction and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington DC 20460. Do not send the form to this address.

DATA MATRIX Date: August 14, 2003 EPA Reg No./ File Symbol 70506-18 Applicant's/Registrant's Name and Address: United Phosphorus, Inc. 423 Riverview Plaza Trenton, NJ 08611 Ingredient: Bifenthrin (PC 128825)

Guideline Reserence Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			FMC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	pay	
			FMC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	Pay	
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Name and Title
Elizabeth Anne Brown, ChemReg International, LLC
Registration Agent

Date 8/14/2003



UNITED STATES ENVIRONMENTAL PROJECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

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EPA Reg No / File Symbol	Page 4 of 4
[(0200-10	
Product: Bifenthrin Technical Insecticide/M	iticide
·	
	70506-18 Product: Bifenthrin Technical Insecticide/M

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			UPI is a member of the Ag Re-entry task	Own	
			force; UPI is a member of the Outdoor Residential Task Force		
			UPI is a member of the Ag Re-entry task force; UPI is a member of the Outdoor	Own	
			Residential Task Force		<u>,</u>
			UPI is a member of the Spray Drift Task Force	Own	

94

Signature
Helpsech ance Brown

Name and Title Elizabeth Anne Brown, ChemReg International, LLC Registration Agent

Date 8/14/2003



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

AUG 6 2003

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

United Phosphorus, Inc. c/o Ms. Elizabeth A. Brown, Ph.D. ChemReg International, LLC 1990 Old Bridge Road, Suite 201 Lake Ridge, VA 22192-2383

Dear Ms. Brown:

SUBJECT:

Application for Registration

Bifenthrin Technical Insecticide/Miticide

EPA File Symbol: 70506-RI

Your Resubmission Dated June 11, 2003

The product referred to above <u>will</u> be acceptable for registration under FIFRA sec. 3(c)(7) provided that you:

I. Agree in writing to provide additional data as described below within the specified time frame:

You have applied for the registration of a product containing the active ingredient bifenthrin. The Agency has recently conditioned the original registration of which you are a follow-on with a new data requirement. This registration will also be conditioned with that data requirement. Accordingly, you must take steps to ensure that these required data are submitted. The steps could include generating and submitting the data yourself, or you may offer to share with other registrants the cost of conducting testing.

The data requirement which will be imposed on this registration is as follows:

Title of Study	Guideline Reference No.	Study Due Date
Developmental Neurotoxicity Study	870.6300	May 1, 2005

2. Submit or cite data to satisfy Guideline 84-4 (Other Genotoxic Effects). These data are required for products, such as yours, with terrestrial nonfood, domestic outdoor and indoor use patterns. With the exception of this guideline requirement, the data you have submitted/cited and listed on the data matrix, dated 4/11/2002, are adequate to support the proposed uses.

- 3. Correct the following minor typographical errors noted in the "Food/Feed Areas" paragraph on page 2 of the product label:
- Change "area" to "areas" near the end of the third line.
- Change "example" to "examples" near the end of the sixth line.
- In the second to last line, insert a period (".") after "(mills, dairies, edible oils, syrups)" and capitalize the next word ("Serving") to indicate the start of a new sentence.

EPA Reg. No. <u>"70506-18"</u> is being reserved for this product. This must appear on the finished label. The "Notice of Registration" will be issued when three (3) copies of the acceptable finished (printed) labels are submitted. Finished labeling is that which will be attached to or accompany the product. Refer to the attached A-79 Enclosure.

Please respond within thirty (30) days from the date of this letter stating your intentions to comply with the information/label requests cited above. If no resubmission is received during this period, the application will be administratively withdrawn.

This letter does <u>not</u> constitute registration, and the product may not be lawfully marketed until it is registered. To expedite handling, please return a copy of this letter with your finished labeling. If you have any questions regarding this action, please contact Susan Stanton of my team at (703) 305-5218.

Sincerely yours,

Jose V. To Dawn

George T. LaRocca Product Manager (13)

Insecticide Branch

Registration Division (7505C)

Enclosure

	70506-RI Bifenthrin Technical	allian and the second
		THE PARTY AND ADDRESS OF THE PARTY.
	Data Compensation - Selective method w/citera	11 option.
	Matrix a coeptable except:	
*	- must submit / cite data to fultill guideli	ne 84-4
- 2-	(Other genotoxic effects)	
		· Manager 6 · ss
	Product Chemistry - Acceptable, per TRB 1 of 5/21/03 and 7/31/03. CSF ok. Determined to be substantially similar 7	curcus
	of 5/31/03 and 7/31/03. CSF OK.	Mark tage 1 11.
	Determined to be substantially similar;	to
***	FMC's fechical (279-3055)	
3	Acute Tox: Submitted oral! dumal tox s Cited remaining acutes - Acceptable,	Ludies -
	Cited remaining acutes - Acceptable.	per 1/8/03
		review.
	Oral II	
	Dimal #	
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	Excirritation III	
	Skin icritation II	
	Derm. Sons. Neg.	
4	Label - minor types on page 2.	200
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The second secon		
A CONTRACTOR OF THE SECOND		Manager, Says - Material State (September 2015)
***************************************	9	7
Marketa	4 £	

Label - Acceptable w/minor corrections on p. 2.

Bifenthrin Technical Insecticide/Miticide

FOR FORMULATION USE ONLY

ACTIVE INGREDIENT:	••••
Bifenthrin: (2-methyl[1,1'-biphenyl]-3-yl) methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)	****
-2,2-cimethylcyclopropanecarboxylate*	99.4%
OTHER INGREDIENTS	0.6%
TOTAL	108.0% • 1
** ••• • · · · · · · · · · · · · · · · ·	
*Cis isomers 97% minimum, trans isomers 3% maximum.	::.

KEEP OUT OF REACH OF CHILDREN WARNING

United Phosphorus Inc. 423 Riverview Plaza Trenton, NJ 08611 EPA Reg. No. 70506-EPA Est. No.

	FIRST AID
Have the product conti treatment.	ainer or label with you when calling a poison control center or doctor, or going for $ u$
if swallowed	 Call a poison control center or doctor immediately for treatment advica. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give give anything by mouth to an unconscious person.
II inhaled	 Move person to fresh air. if person is not breathing, call 9t1 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
If on skin or clothing	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes Call a polson control center or doctor for treatment advice.
if in eyes	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL CHEMTREC 1-800-424-9300

PRECAUTIONARY STATEMENTS

Hazards to Humans (and Domestic Animals)

Warning

May be fatal if swallowed. Harmful if inhaled or absorbed through the skin. Causes moderate eye irritation. Avoid breathing dust. Avoid contact with skin, eyes, or clothing. Remova contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

Environmental Hazards

This pesticide is toxic to fish and aquatic invertebrates. Do not discharge effluent containing this product into takes, streams, ponds, estuarles, oceans, or public waters unless in accordance with the requirements of a National Poliutant Discharge Eliminations System [NPDES] permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer

systems without previously notifying the sewage treatment plant autifority. For guidance, contact your State Water Board or Regional Office of the Environmental Protection Agency.

Physical/Chemical Hazards

Do not use or store near heat or open flame

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

This material regulres further mixing before use

Only for formulation into an insecticide/miticide for

Terrestriat Non-Food:

Termilicide and Soil Contact Nonlymigation Treatment

Wood Treatment and Protection/ Outdoor insect Control

Omamental plants, trees, shrubs, and vines (woody)

Residential Lawns 🗸

indoor insect Control

Non-Food/Feed Area: May be used to manufacture end-use products for use as a spot or crack and crevice treatment in non-food areas. Similar areas where insects hide or through which insects may enter can be treated. Examples of non-food areas include: garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boller rooms, garages, mop closels, and storage (after canning and bottling).

Food/Feed Areas: May not be used to manufacture products for use in food/feed areas. Do not use in food areas of food handling establishments, restaurants, or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed or facility is in operation. Serving area area where prepared food are served such as dining rooms but excluding areas where foods may be prepared or held. In the home all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed foods should be covered or removed. Example of food areas are areas for receiving, storage/packing (canning, bottling, wrapping, boxing), preparing, edibte wastes, storage and enclosed processing systems (mills, dairies, edible oils, syrups) serving areas (when food is exposed and facility is in operation) also would be considered a food area.

- (2) Uses for which U.S. EPA has accepted the required data and/or citation of data that the formulator has submitted in support of registration; and
- (3) Uses for experimental purposes that are in compilance with U.S. EPA requirements.

Formulators using this product are responsible for obtaining U.S. EPA registration for their formulated product which may be labeled for the use patterns as found listed on this label.

Storage and Disposal

Do not contaminate water, food, or feed by storage and disposal. I

PESTICIDE STORAGE

Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not puty concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, tertifizers, water, food, or feed by storage or disposal.

in case of splil, avoid contact, isolate area, and keep out animals and unprotected persons. Confine splils:

PESTICIDE DISPOSAL

Pesticide wastes are toxic. Do not contaminate water, food or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation to Federal law. Dispose of excess waste or pesticide by use eccording to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL

Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration, if allowed by State and local authorities. If drum is contaminated end cannot be reused, disposa of in the same manner.

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call CHEMTREC 1-800-424-9300

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE:

Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of United Phosphorus or Seiler. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold United Phosphorus and Seiler harmless for any claims relating to such factors.

United Phosphorus warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Selier or United Phosphorus, and Buyer and User assume the risk of any such use. UNITED PHOSPHORUS MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

in no event shall United Phosphorus or Selier be liable for any incidental, consequential or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF UNITED PHOSPHORUS AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE, AT THE ELECTION OF UNITED PHOSPHORUS OR SELLER, THE REPLACEMENT OF THE PRODUCT, OR COMPENSATION LIMITED TO DAMAGES NOT EXCEEDING THE FARE MARKET PURCHASE PRICE, AND SHALL NOT INCLUDE INCIDENTAL OR CONSEQUENTIAL DAMAGES.

United Phosphorus and Seiler offer this product, and Buyer and User eccept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by the duly authorized representative of United Phosphorus.

Pending, not EPA Approved, 03/20/2002

DATE OUT: July 31, 2003

SUBJECT: PRODUCT CHEMISTRY REVIEW OF Bifenthrin Technical

Insecticide/Miticide

DP BARCODE No.: 291574
REG./File Symbol No.: 70506-RI
DECISION: 219958

FROM: L

Linda L. Kutney, Chemist Link L Kutny 513w 7/31/03

Product Chemistry Team

Technical Review Branch/RD (7505C)

TO:

Marion Johnson, Susan Stanton PM-3

Insecticide Branch/ RD (7505C)

PC CODE: 128825

USE:

Insecticide Technical Product with No associated Food

Üses

INTRODUCTION:

United Phosphorus, Inc., has submitted product chemistry data to support their claim that their product, Bifenthrin Technical Insecticide/Miticide, is similar to FMC's Bifentrhin technical, Reg. No. 279-3055. Data were submitted under MRID 46008501 and 46008502.

SUMMARY OF FINDINGS:

TRB has denied the claim of similarity between the abovementioned products in previous reviews, due to differences in their reported physical chemical properties, i.e., density and described physical state (12/11/02 and 5/21/03 reviews).

TRB CONCLUSIONS:

According to published literature (Pesticide Manual-11th Ed., 1997), the physical state of bifenthrin varies from a viscous liquid, crystalline or waxy solid, having a Specific Gravity/density of 1.210. According to the Registrant, as bifenthrin is purified, it becomes more crystalline and less dense, the Registrant reports that it is solid above 97.5% and liquid or waxy semi-solid below that purity.

The proposed product has a nominal concentration (NC, 1/9/03 CSF) of 98.2 with certified limits for the cis isomer of 95.1 - 100.0, with a density of 0.4593 g/ml = 3.8 lb/gal.

The cited product (3/22/01 CSF) had a NC of 91.1%, with certified limits for the cis isomer of 86.3 - 96.0%, with a density of 1.26 g/ml = 10.5 lb/gal.

Because the purities of Bifenthrin varies for both the proposed product and cited product, density measurements and physical state descriptors are not good indicators of similarity. Because the proposed product contains no new impurities and has fewer toal impurities, TRB reverses its previous conclusion and grants the similarity request.

Briefly, the results of the density tests submitted are:

MRID 46008501
99.26% Bifenthin Bulk Density
Pour 0.452 - 0.454, avg. 0.453 g/ml
Tap 0.0554 - 0.558, avg. 0.556 g/ml
This is an acceptable study

MRID 46008502

99.0% Bifenthin Density of Melted substance (melted completely at 70C)

1.2231,1.2085,1.2131 g/ml, avg. 1.2149 g/ml
This is not an acceptable study, it is not acceptable to melt the sample and then determine its density.

NOTE TO THE PM:

If time permits, could you contact FMC and ask if the density of their Bifenthrin technical, Reg. 279-3055 has changed since the 10.5 lb/gal value (1.26 g/ml) present in box 7 of their 3/22/01 CSF? This may be a very old value that should have been updated years ago.

Notes Re: UP's Selective Citation Motified \$158.240 Residue chemistry data requirements.

2

Required Addressed on Madrix
Not Sure ... I All.

(a) Table. Sections 158.50 and 158.100 through 158.102 describe how to use this table to determine the residue chemistry data requirements and the substances to be tested.

					Gen	may new bes	igens.			-	Test au	b#ance	.
Kind of data required	(b) Notes	Terrestrial		Aquata		Greenhouse			Domestic		Data to sup-	Deta to sup-	Oxida- insa rei- erance
		Food exp	Hontood	Food	Hardood	Food	tecnicod	Forestry	cuttion	Indoor	port MP	port EP	Ho.
Chemical Identity	(1) (2)	PC PC	[F]	門門	(PI) (PI)	[PI]	F1 F1	[F0] [F6]	(M)	EE	TON	TO44	171-4 171-4
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Residue enalytical method Magnitude of the rite-	(4), (12), (14), (15)	prq.		(FI)	<u></u>	(FI)	<u></u>		icsi	(CR)	metablebas. TGAI and mo- tebolities.	tabolites. TGAI and me- tabolites.	171
idus: Crop fleid trieis Processed tool/ teed.	(127), (14) (5), (14)	ical is		ich ich		icul iui			icsa	ICRI ICRI	TEP	P	171 171
Madiminipoutry	(6), (14)	(CR)		ICM)		[CR]				(CA)	TGAL or plant	TGAI or plant	171
Potable water Plan inigelad crops	(7) (8) (9)			EEG	EE					<u></u>	matabolius. EP EP	EP	171 171 171
Food handing Reduction of residue	(10), (14) (11), (14)	(CR)		(CPI)		[CR]				(CR)	Roddus of	Recitive of	171- 171-
Proposed tolerance	(12), (14)	PR		हर्ष		[PG		<u> </u>		(CR)	CONCERN. Plasticus of CONCERN.	concert. Regides of concert.	171-
Ressonable grounds in	(14)	(FG		内	<u> </u>	[Fig]		icut			171-
expost of the politics. Bulandini of enalytical reference standards.	(14)	m	<u> </u>	評明		(Pq				(CR)	PAPA	PAIRA	171-1

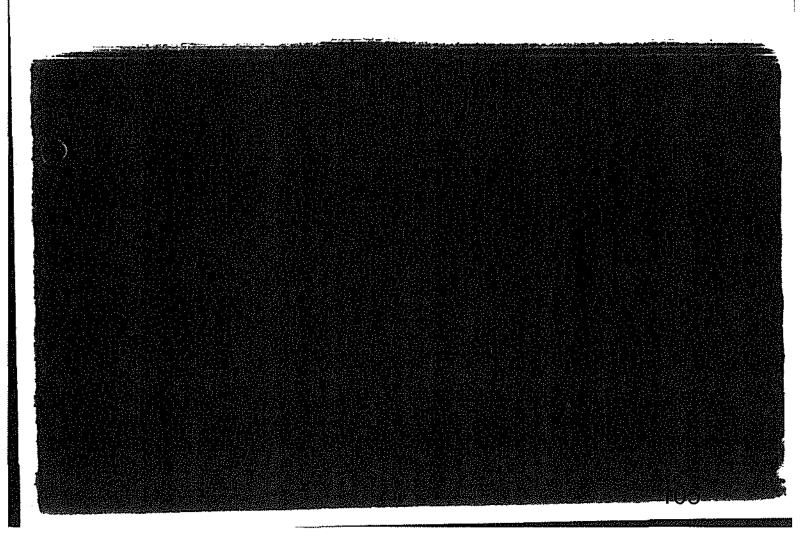
Nov. The Feeding date: CR-Conditionally required date: TGAInTestimized grade of the active impedient, PAIRAmPure soulve impredient, rectio labeled: EP-Erst-one product, TEP-Typical indicate product, MF-Maintanachung-use product; I-Marchett SAL, RPL (CR) Indicate date requirements that apply when an experimental one permit is being sought.

(b) NOTES—The following rouse are retermined in column two of the bable contained in personants that apply when an experimental one permit is being sought.

(3) Required indomination includes crops to be instant, rate of applications, number and fining of applications, prehament internals, and reterminate restrictions.

(3) Enter to metabolisher in Newtock are required when residues occur on a Prestock product in the otherwise, and reterminate restrictions.

(4) A residue method for enforcement of Internates is residue internative an amendment of the active product internation in the importance of applications in the active product internation of the active product of the active product internation of the active product internation of the active product of the active product internation of the active product internation of the active product internation of the active product internation of the active product internation of the active product internation of the active product internation of the active product internation of the active product internation in the active product internation



(3) Livestock feeding studies are required wherever a position obtain as a realizar in a fivestock lead. Use involving direct application to Prancia, realizing poultry, will require arrived the desirable and are required wherever a position in to be applied directly to water, unless a can be determined that the breated entire would not be used (eventually) for directly propose, by man or arrivals.

(3) Desta on realizate in fact, ore required wherever a position in to be applied directly to water that much be used for integration or to brigation such as arrivals.

(5) Desta on realizate in bookless in load harming establishments are required where it required wherever a possition in to be used in bookless in bookless in bookless in the harming establishments are compared at the content of the first possition and a possition of the CPT 178 1010.

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resease. (14) Registré to support registration et en indoor use pesiticiés il auch a use could requil in residues in feed et fand. (18) For all food uses, data en whether the FDAA12OA residirations methodology would detect und klandly the pesiticide are required.

[49 FR 42891, Oct. 24, 1884. Redesignated and amended at 53 FR 1898, 1899, May 4, 1898; 59 FR 34203, June 23, 1993]

§ 158.200 Environmental fate data requirements.

(a) Table. Sections 158.50 and 158.100 through 158.102 describe how to use this table to determine the environmental fate data requirements and the substance to be tested.

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8	Kind of data required	(b) Notes	Tarre	nativity.	Aquatic		Greenhouse			Domestic		Data to sup-	Deta to sup-	Enos ref-
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	in et r	Ø	CA.							<u> </u>		TGAI or PAIRA	TOM OF PARKA	151-4
	kielskedom studioo-leb Aarobie soli		Mi	M			R	R	m	a		TOU OF PASSA	TGALET PARA	16-1 . ;
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	Acrobic squatte	 		<u> </u>	PA	M						TOM or PASA	TGAL or PASSA.	162-4

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(Pak)	2)	CR CR				CR CR	CR CR				TEP	TEP	163-2
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Sol		R	R				ļ		R		TEP	TEP	
Forestry				l is	R						TEP	TEP	104-1
Combination and tank	(2)							R			TEP	TEP	184-2 184-3
Soll, long-torm	(4)	CA CA		Cn Cn		1	Ì				***************************************		184-4
Accumulation studies	- ' '			.		ļ 					TEP	TEP	184-6
Rotational erape: (Cordines)	(8) (9)	icui Icui		[CR]							PARA		
irrigated crops	Ö			CA							TEP	PARA	185-1
in Esh		icui	ICR)	ICRI ICRI	CPI [CPI]			ICAT			TEP	TEP	185-2
in aqualis non-tergel orga- risme.	(年)、(中)				CPI CPI			CR		i	TGAL OF PAIRA TEP	TGAU or PAINA TEP	185-4 186-5

Key: Re-Required: CR-Conditionally required: []-Brackets (is. PR] (CR) Indicate data requirements that apply when an experimental use permit is being accept. I TEM-special and use product. EP eligible and use product. EP eligible required: EP eligible and use product. EP eligible required: EP eligible EP eligible required: EP eligible required: EP eligible required: EP eligible EP eligible required: EP eligible required: EP eligible EP eli

clauser seary.

AAA(7) Required II is in reasonably foreceable that water at treated site may be used for intigation purposes.

AAA(8) Required II significant concentrations of the active ingredient and/or its principal degradation products are Ricky to cocur in aquatic environments and may accumulate in aquatic AAA(9) Required unless tolerance or action level for fish has been granted.

(49 PR 42581, Oct. 24, 1984. Redssignated at 53 FR 15993, May 4, 1988)

§ 158.340 Toxicology data requirements.

8

(a) Table. Sections 158.50 and 158.100 through 158.102 describe how to use this table to determine the toxicology data requirements and the substance to be tested.

Environm
TOTOCIO
n Agen
£

POTENCIA (CARACTERIA)				· · · ·	,	Gers	eral use pai	borns				Tost set	Marks	0.440-	8 8
•			Tern	ne tel	Aqu	ade .	Green	-	Manustra	Domests	Indoor	Design to gap-	Date En cra-	Erae raf- erance His.	169.340
	CAR of care undepend	(b) Hotes	Feed 5/99	Herdood	Food crop	Hardand	Feed evep	Nordend	Forestry	0,5200		part 169*			8
	Acto Issael) Acto and issaely—nd	(7)	m	m	m	m	[79	M	P3	 PI	pro	MP and TGAL	EP OF EP GLASSIC STOCK TOLAL	8 1-1	
	hode dered leddy	侧網	pe	M	pq	M	Pi	M	P4	m	FI	TOAL	EP or EP COLORIA ENG TOM		
	Acute thelisten testiliy-	(14)	PQ	M	PQ	79	M	94	Fq	279	PO	TOJE.	TOAL	11.4	
	est. Prisnary aya intestion—	2)	1	FQ.	PN	pq	144	M	174	PN	6 79	159	8	11-4 (11-4	
,	mittil. Primary domini inflation Dermai sensitization Acute delayed passitization		4.PH)	PI PI PI	R R	R R	PI PI PI	RRR	RR	P	PA PA PA	TQA	TOW	81-7	AN.
	Bulacheoria 1600/19	,,,,		C#	m	I CR	P 0	CR	CR	CR.	C/A	TON	. rsu	· (• • • • •) /	1 2. Lo
8	policy leading studies— roders and nearcours.	(18		CR	CR	ca	CR	CFI	Cn ·	CPA	CR	70AI	TGAL and	(6.4)	1
	21-day dennel	(a) (a)	CR	CR CR	CR CR	CA CA	CR CR	CA CA	CR CR	CR CR	CA CA	704	TON		Į Š.
4	SO-day nountablely: His	- 8		CR CR	CR CR	CR CR	CR CR	CR CR	CR CR	CR CA	CR	TOA	TGA	62-6	S CFR
40	Chronic testing	(F), (13	1 pg	ca	FFG.	CR	PR)	C#	CR.	CR	CA	TON	_ TGAI	_ (39-1)	ĝ
13	Chronic foeding—2 spp. roders and nonrodent. Oncognicity study—2 Spp. ret and mouse	67.6	3 ' '	CA	R	,ca	R	CR	CR	ca	CR	10A	_ TOA	-	D 1 4
	protesti. Tambopericky2 specia Ropentation, 2-gardes	(11)* (1 (16)* (1		CR CR	A	CF CF	M	CA CA	CA CA	CA CA	CA CA	TOM	TON	not regun	Xį
n st	tion. Listing onlicity facility Garge resistant Greateral phromosomal		a m	R	F1	A A	M	R R	A R	PA PA	R	TOAL	TOW	14-3	Coston
4	Char perstade elleris		20 170	- _R		R	775	R	A	R	A	T9.4	11044	\$4-4	<u></u>
pontrat															
• •	Special tarting	_	_ _	_	_	l _{ca}	l _R	ca.	CR.	CR.	l _{ca}	PAL or	PALce	55 4 1	5
ger.	Germani tretabellem Dermai ponetration	. i .	EN CAR ES CAR	CA CA	CR.	Ç₽.	CR	CA.	CR	CR	CR	PAIRA. Cholos	PARA.	_ #-1	· 1
uithd o	Domestic arbinal extenty AAAKey: Re-Require identitis is (new purcha Cholos-cholos of severa (b) folias.—The folios (1) Not required if lead (2) Not required if lead	d data: CR product: EP and from a d mot substr	2) CR Condition End-Use registered rows, depa	CR	CR t julima erisk identi SAL-Techni dias require	CR dets (le (R les Prope de partie of cl.	I, (CP) led	Scote data varie fixt er e begredent	moderned	CRI special sp	by when a completors' gradient, P	Cholos	Chains	being souther in school there- make intheliest	Environmental P
3	(1) Packet The Robbe (1) Pack required II Sant (2) Pack required II Sant	reg roma is tratarial is a tratarial is a	a caracterist Care of 140 Care of 140	o m gosanni My vojetka, akin or has	philippa (for	n 2 or gree	wa et perag let (fazt 11.)	rmen en ur i S; such in pe	ran percenturt. Ochsel will be	charted a	s tomicity o	Magary I on the I	basis of patents	ni myo and dar-	Prote

<u>.</u> -	General metabolism Commit ponetration Commit ponetration Commit ponetration	(12) (12)	R CR CR	S S S	R CR CR	CR CR	R	1	CR CR CR	CR CR CR	CR	PAI or PAIRA. Cholos Cholos	PAI or PAIRA. Chalce Chalce	
-			<u> </u>							<u> </u>	1			

(I) The use requires a toterance for the periodic or an examption from the requirement to obtain a toterance, or requires issuance of a food additive requision.

(21) Required 8 any of the tollowing orderia are most.

(3) In active provident(s) or any of 25 (their) metabolism, degradation products, or impurities.

(3) Is a substance that cause medicipate describages.

(3) Is a substance that cause medicipate describages.

(3) The Loss requires that cause medicipate of the pesticipate of a properties is, important in any organ that may lead to necessate change.

(4) The Loss requires a loterance for the pesticipate of a p., important in any organ that may lead to necessate change.

(5) The Loss requires a loterance for the pesticipate and in terms exposure on the least a biterance, or requires the least of a food additive requirement.

(6) Use of the pesticipate is they to read in terms exposure exposure to obtain a biterial in terms of a first the exposure occurs or the duration requirement of the least and the lateral in terms of all the standard the lateral or any appear which is bignific that the exposure occurs or the durations repaided which for used in terms and the lateral pool additives to reason and the secondard the lateral pool additives to reason periodice which are used in a secondard terms. The displacement of the lateral battery of metagenisty tests must include tests appropriate to address the tolerance contains a coordard with the objectives set forth in § 153.002:

- of companies for annual production which are used in second form; but was an appear to be considered to be considered before the contained and in a contained second form; (22)(f) The societation with the colorises set form in § 193.562: (A) Gara material.

 (B) Structural chromosomal abstractions.

 (C) Other generated effects as appropriate for the less substance, e.g., numerical chromosoma substance, after DNA damage and speak, memmaken cells bareformation, larget organi

(C) Other genderood enters at appropriate for the sent outcomes, a.g., remeated environment accordance, unter this country may reper expension there in the sent of the sent of these consists and the sent of the

[49 FR 4283], Oct. 24, 1984. Redesignated and amended at 53 FR 16993, 16999, May 4, 1988; 88 FR 94293, June 23, 1993.

§ 158,390 Reentry protection data requirements.

(a) Table. Sections 158.50 and 158.100 through 158.102 describe how to use this table to determine the reentry protection data requirements and the substance to be tested.

						Gen	oral use put	lectus				Test a.	belance	
	Kind of data required	(b) Notes	्रीभार		Aq	nde	Green	house	<u> </u>	Domestic		B-1-4	B-1- 4- 4	Guideline reference
d.		.,	Food Grop	Nonload	Pood crop	Hardood	Food crep	Horicod	Forestry	entidoor	Indoor	Data to exposit	Data to expose EP	No.
$oldsymbol{x} f^{\omega}$	Fotor dissipation	(1). (2). (1). (2). (2). (3).	CR	CR CR	CF1 CF3 CF3	CR CR CR			# # # #				TEP	132-1 132-1 133-3
	inheleton exposure	(1), (2)		CIR	СЯ	CR			C#1			те>	TEP	354

en two of the table contained in personaph (a) of this section.

Notes for restrictions are most.

Sign of the technical grade of active ingredient is less than 200 moying floody emightly; or

any of the technical grade of active ingredient is less than 200 moying floody emightly; or

any of the technical grade of active ingredient is less than 200 moying floody emightly; or

the technical grade of active ingredient is less than 80 moying (body emightly; or

or oncognic effects or other adverse effects as evidenced by substraints, chronic, and reproduction studies would be expected from entry at persons into

or oncognic effects or other adverse effects as evidenced by substraints, chronic, and reproduction studies would be expected from entry at persons into

Heteriones, analysism of the second course of the first o

- Application to be former and forestly operations.

 Application to be once and commercial applications to test.

 Application to partie and commercial application to test.

 Application to partie and approximator (1) application to aquatic corps.

 And it human deposure to residue of the pesticide can be researcibly foreseen. This applies primarily to pesticide that all be used on crops where it is exposure to residue of the pesticide.

 Deta required if appropriate surrogate data are not available.

 Deta required if the applicant chooses to use the above the exposure is well method for proposal of a receive it is exposure to residues.

 Soil designation data required if agricultural practice involves human tasks that would cause autotardial exposure to residues sorbed to soil.

[49 PR 42881, Oct. 24, 1984. Redesignated at 83 PR 18993, May 4, 1988, and amended at 88 PR 34203, June 23, 1983] § 158.440 Spray drift data requirements.

(a) Table. Sections 158.50 and 158.100 through 158.102 describe how to use this table to determine the serial epray drift data requirements and the substance to be tested.

					Gen	erst upp pa	Sécres						
NGod of data required	(b) Notes	Төсү		/q	antic	Gran	Young.				Test au	Detance	l
		Food grop	Nonfood	Food	Menteed	Food	Horstood	Forestry	Domestic cutdoor	Indoor	Data to sup- port sap	Data to exp-	Guido- lines ref- erence
Droplet size spectrum Drift field evaluation	(ii)		8	CFI CFR	Ca l			CR			-	port EP	No.
Key: CRuConditionsBy req	wet TEPs	Typical and	UNE Droduc	<u> </u>				CR				TEP	271-i

ğ

Key, CRuConditionally required; TEP-Typical and use product.
(b) NOTE:—This following are referenced in column two of the table contained in paragraph (a) of this section.
(ii) This study is required when sends applications (rotary and fixed winged) and mist blower or other methods of ground application are proposed and it is estimated that the detribute of those nonlarged organisms expected to be present would be severally engaleme include humans, domestic arimals, fish and widdle, and nonlarged organisms that would be expected to be similar to the proposed product.

201 Planament

[49 FR 42881, Oct. 24, 1984. Redesignated at 53 FR 15903, May 4, 1988, and amended at 58 FR 34203, June 23, 1993] \$ 158.490 Wildlife and aquatic organisms data requirements.

(a) Table. Sections 158.50 and 158.100 through 158.102 describe how to use this table to determine the wildlife and aquatic organisms data requirements and the substance to be tested.

Kind of data required	(b) Notes	Yerr	etial	1		oral use pe			- · - · -	•	Yest a	beance	
	(c) recise	Food trop	Nonload	Food Crop	Nonfood	Food Gree	Nontood	Forestry	Domestic outdoor	Indoor	Data to support	Date to support	Guide- Bride rel- Brance
Avian and mammation testing Avian oral LD ₁₀ (pref-													No.
prably makent or bobwisks).	(1)	(FI)	(FI)	(FI)	(R)	CR	CR	[FF]	(FI)	CA	TGW	TQAI	<u></u>
						•	'	, ,	ı [

				J.W		Gen	red use petit	pres				Teat ext	55.000	Gradio-	
	Kind of data required	(b) Notes	Такто	artel	Aqu	0 46	Greati	608	Forestry	Domeste	Íméace	Date to purport	Date of state	grantes extreme	150.48
			Pood grap	Horstood	Food Crep	Nontcod	Food crop	booleast	104531	entácer	452	147		Pto.	8
	Antar Colony L.C., (Sectionary modern)	(1)	M	M	prq	PI)	ÇR	CA	79	M	CR	TOW	TON	(714	
	und indicating). Visit maximus looking Julian reprediction (preferably median)	88	CF.	CA CA	CR CR	CA CA			CR CR	CA CA		TOW	TOW	71-3	
	and botwide). Simulated and actual field testing—mean- male and binits.	(21)	CR.	CR	CRI	C#			CR	CR	<u></u>	T&	TEP	71-5	
	Aquatic organism testing Producester Soft LCon	(O. CO	pro.	तंप	pq	PN PN	CR	CR CR	附	m	CA	TGN	TGN	čn⊱i ,	
	(preferably reinbow and blungs). Acute LC _m trackmater	(1), (7)	PI PI	m	FI	PO	CA .	СЯ	M	P 0	CR CR	том	том		
104	invertabrates (prof- erably Daphnist). Acuse LC _{III} estuarine and marine order	(9, (7)	C#	CR .	CR.	CR			CA.	СЯ		TQ4	10vi	73	
	nione. Pich sarly life stage and soudio knocks-	(5)	CR.	CR	C#A	cn		<u> </u>	CR	CR		TOW	TOM	75-4	
	trate Re-cycle. Pah-We-cycle	6	CR CA	CR CR	CR CR	CR CR		-	CR CR	CA CA		TOAL PAL or degradation product	TOAL PAL or depreciation		β Ω
	Simulated or extend	, ca	' J = '	CA	СЯ	CA			CR	CST .		THEP	THEP 4		β
•	Rey: Participated; Chi-Conditionally required; [Inditional product participated of the product participated of the product participated of the product participated of the product product participated of the product participated of the product participated of the product participated of the product product participated of the product product participated of the product pro														
														not requ	viree

a the reproduction in terrestrial variativates may be entrarestly effected by the enticlosise

tion of an avidide, the applicant should consult the Agency.

The materials or matter environment, or the product is expected to order this environment in algorithms concentrations.

debrates for whichever species is most sensitive to the perficies as determined from the results of the acute tox-ed to be transported to water from the intended use site, and when any one or more of the following conditions

the busing testing is less than 1 mg/t, or ion in water is equal to by greater than 0.01 of any EC _{in} or LC _{in} determined in acuse testing, sometimes to acuse testing and any of the indicates concentration in water resulting from use is less than 0.01 of any EC₁₀ or LC₁₀ determines in acuse testing and any of the indicates

dicate the reproductive physiclogy of figh and/or invertebrates may be allected. Scale curvature effects.

indicate currelative effects.

Int in water (e.g., half-life in water greater than 4 days).

Loss product is intended to be applied directly to water or expected to intended to water from the intended use site, and when any of the billowing conditions used product is intended to be applied directly to water or expected to intended to be applied directly to water or expected to intended to be applied directly to water or expected to intended to be applied directly to water or expected to intended to be applied directly to water or expected to intended to be applied directly to water or expected to intended to be applied directly to water or expected to intended to be intended to be applied directly to water or expected to intended to be intended to be applied directly to water or expected to intended to be applied directly to water or expected to intended to be applied directly to water or expected to intended to be applied directly to water or expected to intended to be applied directly to water or expected to intended to be applied directly to water or expected to intended the intended to be applied directly to water or expected to intended the intended to be applied directly to water or expected to intended the intended to be applied to the intended to be applied to the intended to be applied to the intended to be applied to the intended to the intended to be applied to the intended to be applied to the intended to the intended to the intended to be applied to the intended to

planeted environmental concontration is equal to or greater than one-tenth of the no-effect level in the fash early life-days or bruntabasts life-cycle tent, se of effect organisms indicate the reproductive physiology of lish may be affected. NOTE: The applicant should consult the Agency prior to these tests to support the registration

a person.
(1) Date from testing with the applicant's end-use product or a typical and-use product is required to expect the registration of each and-use product which means any one of the following

oridisons:

(i) The end-use position will be introduced directly not an aquatic unvironment when used as directed.

(ii) The LC_m or EC_m of the behinkel grade of active ingredient is equal to or less than the maximum expected anvironmental concentration (AEEC) or the sediment anvironmental convironmental environmental e

[49 FR 42881, Oct. 24, 1984. Redesignated at 53 FR 15993, May 4, 1983, and amended at 58 FR 34209, June 23, 1993] § 158.540 Plant protection data requirements.

(a) Table. Sections 158.50 and 158.100 through 158.102 describe how to use this table to determine the plant protection data requirements and the substance to be tested.

Kind of data required (eus; nee bay					Text su	Calculate and a	
	(c) Hotels	Terre	etriel	Aq	ede	Green	tores						Coulde- Erres ref-
	.,	Food	Hanfood	Food crop	Honfood	Food	Honicod	Forestry	Domestic Outdoor	_ Indoor.	Desta to sup- port MP	Data to sup-	eranse No.
arget area phytotoxichy iorparget area phytotoxicity ior t Beed germination/ seeding emer- gence. Vegetative vigor	3 (8) 8		A G		A A			n n			2 2	70M	122-1

Conord use pulloma Test exectores Commitment Feed CF03 Food crop/ Hardood Nonése TON 122-4 Aquado (deri gravii (2) ÇĄ CA CA TON 10 125, ing omer CA CA CR CR (A) (A) CR CR tom Tom TO TO. CFI CFR CR CR T 124-1 124-2 TO Amendo Baid TEP

Key: CRuConditionally in B) Horsel — The following

The Confidencity required TGA in Technical grade of the active trynsioner, EP-End use product, TEP-Typical end-use product, TRES—The holise statement is contained in paragraph (x) of the action, as are required for Special Review and carbin public health alkalization. For herbicide used in forest also preparation; the acquaint is producted to be used in other locations when any of the following conditions are mat: postable to be used in other locations when any of the following conditions are mat: postable to used in other locations when any of the following conditions are mat: postable to end any other locations when any of the following conditions are mat: postable to end any other locations when a strength of the following conditions are mat: product may poste feature the conditions of a strength of the following conditions are mat: a product may poste features to endergoined or threshold product.

In the contraction of the product, expired if a 25 percent or greater detrimental effect was found in 1 or more plant species in the corresponding test of the provious for, coulded it a 50 percent or greater detrimental effect was found on any plant species in the corresponding test of the provious for. . For herbidde used in forest elle propossion; the acquest, plant growth team est be registred. Data are re-consistent are mat:

[49 FR 43321, Oct. 24, 1984. Redesignated at 23 FR 1533, May 4, 1983, and amended at 25 FR 3430, June 22, 1333]

§ 158.590 Noziarget insect data requirements.

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3

(a) Table. Sections 158.50 and 158.100 through 158.102 describe how to use this table to determine the nontarget insect data requirements and the substance to be tested.

		T			Ger	versi vers per	Čero)				Test su	betwee	#3.44a
Kind of data required	(b) Notes	Term		Aq	nde,	Chroce	shoulde		P				Childo- lines rel-
		Food Grap	Hardood	Food erep	Horiood	Pood grep	Horitopal	Forestry	Damenta outdoor	Indoor Use	Data to mip- port MP	Data to sup- port EP	ereros Ho.
Honterget Insect Insting-													
House has early control.	(1)	ical	[CR]	(CM)	(CR)			lost .	ICM)		TOW	TON	141-1
Honey beambricky of residence on toleron.	(1). 四	CR	CR	CR .	CA			CR	CR		TEP	TEP	141-2
Honey bee substitute food-	网										····		141-4
ing study. Field meting for politomers	(4)	CR	l ca	l ca	CR .	 	 	CA	ÇR	<u></u>	TEP	TEP	141-8

Horawyst indext issting— agustic indexts,					1	1		l ,	ł	ì	ŀ
Acute textolly to aquation incomes.	(8)					 	 				142-1
Aquatio insect lite-oyels study.	(5)					 	 				142-1
Simulated or actual field landing for aqualic in-	(4)					 	 				142-2
escie. Horizgal insect testing— precisions and paracles.	(87)					 	 				143-1
		<u></u>				 					##U 143-3

indirectors (i.e., ICTO) indicate data requirements that apply to products for which an experimental use permit is being except; TOAIn Technical grade of dress product.

m of the latin contained in paragraph (a) of this section.

dense having an acuse LD_M of less than 1 microgram/bea.

Sects on colonies, especially effects other than scale morsilly (reproductive, behavioral, stc.).

149 FR 42881, Oct. 24, 1864. Redesignated at 53 FR 18833, May 4, 1988, and amended at 55 FR 34203, June 23, 1983)

§ 158.640 Product performance data requirements.

(a) Table. Sections 155.50 and 156.100 through 158.102 describe how to use this table to determine the product performance data requirements and the substance to be tested.

					Gar	कार्य एक इन्हें	Marine,				Test to	Cotange	T
Kind of data required	(b) Notes	Term	matrici	Aq	14 ZC	Grade	Acres .		T	T		T	Guide
		Food crop	Nontced	Food crop	Handood	Food	Nonload	Forestry	Domestic Subdoor	Indoor	Cathe to sup- port MDP	Data to sup- port EP	Tines ref- erence No.
Efficacy of antimicrobial agents											 		
Products for use on hard Burlaces.	(1)									CFA		er	91-2
Products requiring con- fematory data.	(1)									CPI		EP	91-3
Producte for sen on lab- rice and textiles.	(1)									CR		D	B1-4
Air sanitzers	(2)	-								CR CR		£P	91-6
with human and animal resides.										- .	***************************************	EP	81-7

### Efficiency of Amplicities and nematicides Products for control of organisms producting mycotics/ns. ###################################						Can	omi use pez	क्षाव				Tool ex	bstance	
Products for inquiling wither systems. Efficacy of fungicides and nameficides. Products to control of organization. Efficacy of Vertebrate Control Agents. Avian tooleants. Convenients and notestants. Convenients and notestants. (1) (P) (P) (P) (P) (P) (P) (P) (P) (P) (P	tOnd of data mouled	(in) Netro	Terre	erisi	Aqu	atte	Q/940	-		P				Cross per
Estionary of funcional and nemaricides (1) (CR) (C				Hericoed	Food Grop	Horicos	Food crop	Honfood	Fontably	custoer	Indapa		port 62	
Text		(1)			(CM)						CR		EP*	\$1-6
Stricture producting mycotosine Control Agents Cont	Efficacy of fungicides and nemeticides													
Control Agents	garderne producing	(1)	(CR)		(CR)	******************	(CRI)					***************************************	B*	63-16
Avian trigitaning agents														
Convenental redenticides	Avian repolents	(1)	(70)	(P)						(P)			#	55-6 65-9 60-7 66-9
Rodent tuniquests	Commencel redenticións Redenticións en term sed										m	TP		25-10 03-12
	Rodent funigents Rodent reproductive in-							<u> </u>						86-19 86-19
Manufacture (1) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7)	Marrendan producides	(0)	(P)	(9)	<u> </u>					(PI)			EP	\$\$-17

[49 PR 42831, Oct. 24, 1884, as amended at 50 FR 46765, Nov. 13, 1885. Redesignated at 53 FR 15963, May 4, 1888, and amended at 53 FR 34205, June 23, 1883]

§ 158.600 Biochemical posticides data requirements.

100

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(a) Biochemical perticide product analysis data requirements—(1) Table, Sections 158.50 and 158.100 through 158.102 de-rike how to use this table to determine the biochemical pesticides—product analysis data requirements and the

Constant diaments	ſ					nerof Late pa	History				·		
IGnal of data required	(2) Notice	Tea	***		punte:	7	ricus.	1	T	,	Theat #	Cottonia	
		Food	Horsood	Food	Hardood	Food	Nordood	Forestry	Domestic exactor	and other	Date to sup-	Date to p.c.	Grants rai
Product klandly Manufacturing process		[71] [P]	R		M						beu Ms.	port EP	140.
Discussion of Iconation of		(PI)	P1	PC	1 .	R	A	P)		H	MP and	EP and	151-) 151-1
Analysis of earnples	(M)	(CR)	(CR)	(CR)	IPO ICPO	[P]	FI	(FG)	m	trq.	TOAL	YEAL EP and	161-1
Certification of limits		[77]	R	PO		(CF)	(CR)	(CM)	ICRE .	CR	MP and	TGAL EP* and	161-1
Propinsi and chamboul		Ph	R (Pt)	R (PI)	я Pt		n R	R	R	R R		TON.	151-1
Submittal of parryles	∞	ICRI	ICN)	ICRI	(CPI)	ICA)	ICAI		PG ICRG	PO		EP and	181-1

figure. To experiment of each manufacturing-use product and end use products produced by an integrated formulation system. Date on other and use products will be re-tropic to produce produced by an integrated formulation system. Required on a case-by-case basis for other products or experimental use permit.

(b) Biochemical pesticides residue data requirements. (1) Table. Sections 158.50 and 158.100 though 158.102 describe how to use this table to determine the biochemical pesticides—residue data requirements and the substance to be tested.

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

JL 16 2003

MEMORANDUM

SUBJECT:

Request for Expedited Review

FROM:

Marion Johnson, Chief,

Insecticide Branch

Registration Division (7505C)

TO:

Deborah McCall, Chief Technical Review Branch Registration Division (7505C)

The Insecticide Branch hereby requests an expedited review of additional product chemistry data submitted to support registration of Bifenthrin Technical Insecticide/Miticide (EPA File Symbol: 70506-RI).. These data were forwarded to TRB/CHEM on July 8, 2003 under Data Package DP291574. IB requests that the review be completed within 2 weeks if possible. Thank you very much for your cooperation in this matter.

DATA PACKAGE BEAN SHEET

Date: 08-Jul-2003 Page 1 of 3

	x .	* * Registration Inf	ormation * * *	•
Registration:	70506-RI - BIFENTH	RIN TECHNICAL INSECTICID	E/MITICIDE	
Company:	70506 - UNITED PHO	SPHORUS INC		on the second second second second second second second second second second second second second second second
Risk Manager:	RM 03 - Marion - Joh	nson - (703) 305-6788 Room#		
Risk Manager Reviewer:	Susan Stanton - SST	FANTON		
Sent Dale:	15-Apr-2002	Calculated Due Dat	e: 08-Oct-2002	Edited Due Date:
Type of Registration:	Product Registration	- Section 3		
Action Desc:	NEW REGISTRATIO	N;OLD INGREDIENT;MINOR	CHANGE;	
Ingredients:	128825	·		
· ·	Yes No	•	nt: <u>08-Jul-2003</u>	Due Back:
DP Title:	Additional Density Inf	armation	*	
		Label Included: Yes		
Assigned T	<u>o</u> _	Date In	Date Out	
Organization: RD / T	RB	v		Administrative Due Date: 05-Dec-2003
			and the second of the second o	Negotiated Due Dale:
Reviewer Name:	MANAGE V			Projected Completion Date:
		——————————————————————————————————————		

* * * Studies Sent for Review * * *

Printed on Page 2

* * * Additional Data Package for this Decision * * *

Printed on Page 3

* * * Data Package Instructions * * *

ATTN: Shyam Mathur

in Linda Kutney's May 20, 2003 review, she determined that United Phosphorus's new bifenthrin technical was not substantially similar to FMC's registered bifenthrin technical, in part because of differences in density between the two products. I discussed this with you and you suggested that the company develop additional density data, perhaps using a different method. They have done so and submitted it along with an explanation of the density of bifenthrin in

felation to it's purity and physical state. Please review the new data (MRID#s 460085-01 and 460085-02) and let us know whether the new information supports the determination that the product is substantially similar to FMC's technical.

Thanks, Susan Stanton Page 3 of 3

DP#: (291	574)	" * Additional Data Packa			_		Hon#: (219958)
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288051	RD/TRB	08-Jul-2003	08-Jul-2003	🕜 Yes 🔾 No	Yos	_) No	Yes No
288051	RD/IB	08-Jul-2003	08-Jul-2003	🔘 Yes 🗇 No	Yes	<₿ No	🚳 Yes 💮 No

George LaRocca

07/16/2003 03:37 PM

To: Elizabeth Brown

srown@chemreg.com>

cc: "Tillman Ann (E-mail)" <atillman@upi-usa.com>, Debbie

Edwards/DC/USEPA/US@EPA, Marion

Johnson/DC/USEPA/US@EPA, Susan Stanton/DC/USEPA/US@EPA

Subject: Re: request for urgent meeting re pending application EPA File Symbol

70508-RI

Elizabeth:

I don't believe a meeting is necessary at this time. Based upon the chronology of events associated with this application for registration and the one remaining issue about physical state and density. I will request an expedited review(2 to 3 weeks) of the additional information you recently provided. If there are still questions associated with this issue at that time that cannot be easily resolved then I will schedule a meeting with you and UPI.

George LaRocca
Elizabeth Brown brown@chemreg.com



Elizabeth Brown

brown@chemreg.com

07/11/03 12:33 PM

To: George LaRocca/DC/USEPA/US@EPA

cc: Susan Stanton/DC/USEPA/US@EPA, Marion Johnson/DC/USEPA/US@EPA, Debble

Edwards/DC/USEPA/US@EPA, "Tillman Ann (E-mall)"

<atilman@upl-usa.com>

Subject: request for urgent meeting re pending application EPA File Symbol

70506-RI

George:

On behalf of our client, United Phosphorus Inc., I am requesting a meeting as quickly as possible to discuss and address current issues regarding the above application for registration of Bifenthrin Technical. We request the attendance of yourself, Susan Stanton, Marion Johnson, Debra Edwards, and the appropriate chemists. We request that a meeting be held any time the week of July 21. Dr. Ann Tillman (UPI) and I (representing UPI) will attend.

The reason for this request is that on July 8, 2003, Susan Stanton informed me that UPI's explanation to a verbal question raised by the chemist was being routed for full review, with a due date for response from Chemistry in December 2003. We feel that this is entirely unnecessary and is another unreasonable delay in the consideration of UPI's application. Given the question and UPI's response, we believe that the issue can and should be quickly resolved.

As you know, UPI filed an application for registration of Bifenthrin Technical on 4/8/02. On 4/25/02, the Agency sent a letter stating that the application was considered incomplete because EPA Form 8570-34 (Certification with Respect to Citation of Data) was not included. Following our letter to the Agency of 5/8/02 and the Agency's letter in response on 6/3/02, along with other meetings on the issue of the timing of filing of that form, the Agency in its letter of 8/14/02 confirmed that EPA Form 8570-34 is not required in order for the Agency to begin reviewing the application. However, to ensure no further issues, UPI submitted EPA Form 8570-1 on 8/29/02. But the actions by the Agency resulted in a 4 month delay in starting review of UPI's application.

On December 16, 2002, UPI received the Agency's Product Chemistry Review of the application (DP Barcode D285142, dated 12/11/02). In that review, the Agency determined that additional physical/chemical characteristics data needed to be provided. Other issues identified in that review were resolved by phone discussions with the Agency.

On January 15, 2003, UPI submitted all additionally required product chemistry data, with the exception of the 1-year storage stability study, requesting that submission of the final report be a condition of registration. We confirmed that the study was underway and committed to providing it. On 4/10/2003, I talked with Susan Stanton to determine whether the 0-day report should be submitted; she said it should not be submitted but to wait for the final report which would be a condition of registration. She also identified that Chemistry reviews were due back in early May.

<u>UPI thus has fulfilled all product chemistry data requirements on its technical material with its own studies</u>, with the exception of those data requirements where the PAI is the test material and long term stability (which would be a condition of registration). The Agency has confirmed the UPI can cite and offer to pay data compensation for those data requirements, which UPI has done.

On May 23, 2003, Susan Stanton called me to ask whether we could explain why UPI's technical (98.2% purity) was a solid (crystalline powder) while the FMC technical (previously 89%, now 94%) is a viscous liquid. I explained that the physical state changes with the purity.

On June 4, 2003, Susan Stanton again called, identifying that the chemist still is having trouble with the different densities of UPI's and FMC's technical materials. She asked that we provide an explanation and/or new study using a different method that showed the same density for the UPI material as for FMC's as quickly as possible, and said that the study did not need to be glp. She said that providing that information would allow the chemist to quickly complete his review.

On June 9, 2003, I called Susan Stanton to let her know that 1) the difference in density and physical state is due to well-known and well-documented association with purity of the material which we could provide in letter form, 2) that UPI had confirmatory data to document that the density value already submitted and reviewed is correct. She asked that both be submitted, with a full copy of the confirmatory reports given to her as well as submitted through front-end processing, just to speed the process. She indicated that there should be very little delay to review the explanation. The explanatory letter and confirmatory data were submitted and hand-delivered on June 11, 2003.

As indicated above, on July 8, 2003, Susan Stanton called to let me know that it will be another 5-6 months before the Agency can review a written explanation of a well-known and documented effect of purity on physical state and density. The confirmatory data do not change or replace the already reviewed study for density of UPl's Bifenthrin technical; those data only confirm the results and explain how changing the physical state of UPl's material can change the density, consistent with the explanation provided, in relation to FMC's product.

Those confirmatory data are <u>not required to support registration</u> and would not have been submitted without the Agency's assurance that there would not be a delay in review of the pending application. The explanation provided in letter form is adequate to address the chemist's questions and will not require a detailed review.

We believe that a delay of an additional 5-6 months, combined with the earlier 4 month delay, are unfair to United Phosphorus. We have very much appreciated the Agency's willingness to discuss and quickly resolve other issues and believe that this issue also can be readily and quickly resolved.

Please let me know when the requested meeting has been arranged. Regards, Elizabeth Brown

Elizabeth Anna Brown, Ph.D. ChemReg International 1990 Old Bridge Road, Suite 201 Lake Ridge, VA 22192

Phone: 703-492-7905 Fax: 703-492-0668

Email: brown@chemreg.com

165-55-Chem



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

July 1, 2003

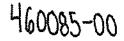
OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

JEFFREY PRITCHARD UNITED PHOSPHORUS INC 423 RIVERVIEW PLAZA TRENTON, NJ 08611

Report of Analysis for Compliance with PR Notice 86-5

Thank you for your submittal of 11-JUN-03. Our staff has completed a preliminary analysis of the material. The results are provided as follows:

Your submittal was found to be in full compliance with the standards for submission of data contained in PR Notice 86-5. A copy of your bibliography is enclosed, annotated with Master Record ID's (MRIDs) assigned to each document submitted. Please use these numbers in all future references to these documents. Thank you for your cooperation. If you have any questions concerning this data submission, please raise them with the cognizant Product Manager, to whom the data have been released.





1990 OLD BRIDGE ROAD, SUITE 201 LAKE RIDGE, VIRGINIA 22192-2383

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WEB SITES: www.chemreg.com

www.pesticide.net

ELIZABETH A. BROWN, Ph.D.

June 11, 2003

Document Processing Desk
U.S. Environmental Protection Agency (7505C)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202-4501

Attn: George LaRocca (PM 13)

Re: Bifenthrin Technical Insecticide/Miticide (EPA File Symbol 70506-RI)

Response to Agency phone call of June 4 and 5, 2003

Dear George:

On behalf of our client, United Phosphorus, Inc., this letter is in response to phone discussions of June 4 and 5, 2003, with Susan Stanton, where she requested clarification regarding the density of the UPI bifenthrin technical (EPA File Symbol 70506-RI) in comparison to what is reported in the open literature and on file with EPA for the already registered technical grade bifenthrin under EPA Reg. No. 279-3055.

Bifenthrin technical can exist as a very viscous liquid, a waxy solid, or as a crystalline powder (solid), depending upon the purity of the technical grade material (as identified in WHO specifications, Pesticide Manual 11th Ed., copies attached). As part of normal manufacturing processes, a lower grade, crude product is obtained and subjected to purification steps before the final technical grade material is obtained. The extent of the further purification and any crystallization steps will determine the appearance and density of the final technical material. Oily impurities remaining in the technical product contribute to the appearance of the final form. There always is a purity interphase between physical appearance from solid to viscous liquid, which is about 97.5% for Bifenthin. Above that, the technical bifenthin is solid, below that it becomes a very viscous liquid, with the waxy semi-solid form intermediate.

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Letter to G. LaRocca, June 11, 2003, page 2

The final appearance (form) of the technical material also has a direct bearing upon the density of the technical. Liquids have a higher density than crystalline powders, with waxy solids intermediate between the two.

The purity of the UPI bifenthrin technical is (nominal) 98.2%. It is a crystalline powder. The density of that technical material is 0.4593 g/ml at 27°C, as determined in accordance with OECD Method 109 and CIPAC MT 3.2 "Pycnometer method" (MRID 45838001, in JRF Study No. 2736). Those methods in accordance with OPPTS 830.7300 (June 2002). The validity of those data is confirmed by the enclosed supplementary study conducted at Product Safety Labs (PSL Study No. 13107), in which the pour density was determined to be 0.453 g/ml and the tap density as 0.556 g/ml (OPPTS 830.7300, August 1996).

The currently registered Bifenthrin Technical under EPA Reg. No. 279-3055 is 94.0% (nominal) purity. At that purity level and at the originally registered 89.0% purity (until June 2001), that bifenthrin technical material would be a viscous liquid at 89.0% and a waxy solid/semi-liquid material at 94.0%. The density value for bifenthrin technical as reported in multiple places in the public literature as 1.212 g/ml at 25°C, appears to be associated with the lower purity material, which is a viscous liquid. For example, The Pesticide Manual (11th Ed.) reports the specific gravity/density as 1.21 g/ml, based on older information, as does EXTOXNET (based on the 1988 EPA Fact Sheet No. 177). As a liquid or as a waxy material, the density of these lower purity technical grade bifenthrin products is expected to be higher than that of the high purity UPI product, which is a crystalline powder (solid). This is confirmed by the enclosed study (JRF Study No. 4176), in which the high purity crystalline powder was melted and then determined the density of the melted and solidified material according to appropriate testing methods. The density of the melted, solidified high purity UPI material was found to be 1.2149 g/ml at 20°C. This value may be more appropriately considered as the specific gravity, which for water in the liquid state is 1.000 g/ml.

Thus, the differences in the density is determined by the physical state of the materials, which in turn is determined by the purity. The correct value for the density of the UPI bifenthrin technical is 0.4593 g/ml, for the material as produced (as identified in MRID 45838001). However, the enclosed confirmatory results demonstrate that the density/specific gravity of the product is comparable to the reported literature values when the crystalline nature of the UPI material is modified to the solid form.

We also note, in response to prior Agency comments that the nominal value for the UPI material is outside the certified limits for EPA Reg. No. 279-3055, that the Agency recently approved a 98.65% purity technical bifenthrin (under EPA Reg. No. 51036-390, approval date 2/2/03). The nominal for UPI material is within the certified limits for the latter product, which the Agency deemed substantially similar to the former. As such, and given the enclosed explanation, the Agency should have all information needed to approve the UPI application for registration.



Letter to G. LaRocca, June 11, 2003, page 3

There have been significant delays in the Agency's review of this application, although the registrant has responded very rapidly to any questions or requests. We therefore request that the enclosed information be reviewed on a prioritized and rapid basis.

Enclosed with this letter please find EPA Form 8570-1, transmittal bibliography, and three copies of each submitted study.

Regards,

Ylegabert Race Brown

Elizabeth Anne Brown

Attachments to letter:

1. Interim specification: WHO/IS/TC/415/2001. Technical Bifenthrin

2. The Pesticide Manual, 11th Edition, 1997. Entry for Bifenthrin

cc: United Phosphorus, Inc.

TRANSMITTAL DOCUMENT

Submitter

United Phosphorus, Inc. 423 Riverview Plaza Trenton, NJ 08611

Regulatory action in support of which this package is submitted

New Product Registration ("Me-Too")
(Bifenthrin Technical Insecticide/Miticide 70506-RI)

Transmittal Date
June 11, 2003

Submitted Studies

	MRID	
		Administrative Materials
Document 1:	46008501	Wo, C. 2003. Bifenthrin Technical. Physical and Chemical Characteristics: Density. Unpublished report submitted by United Phosphorus, Inc. PSL Study No. 13107. 10 pages.
Document 2	46008502	Vohra, Y. 2003. Density of Bifenthrin. Unpublished report submitted by United Phosphorus, Inc. JRF Study No. 4176. 15 pages.

Company Official

Hijasuck ance Brown

Company Name:

ChemReg International, LLC., Authorized Representative for UPI

Company Contact:

Elizabeth Anne Brown

Phone Number:

703-492-7905

Please read instructions on reve	rse before completing form		For	m Approved, OMB i	lo. 2070-008	0, Approval expires 5-31-98
_		ed States		Registration		OPP Identifier Number
SEPA	Environmental	Protection A	gency	Amendme	nt	
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Bifenthrin Technical Insecticity 5. Name and Address of Apr			6. Expedited Revi	ew. In accordance	e with FIFE	AA Section 3(c)(3)
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EPA Form 8570-1 (Rev. 8-94)	Previous editions are obsot	lete.	White	EPA Fite Copy (Original)	Yellow - Applicant Copy



TECHNICAL BIFENTHRIN

Interim specification: WHO/IS/TC/415/2001

1. Specification

1.1 Description

The material shall consist of homogeneous mixture of technical bifenthrin together with some related manufacturing impurities. It shall be in a form of a light brown to amber viscous liquid, crystalline solid or waxy solid with a very faint slightly sweet odor, free from visible extraneous matter and added modifying agents.

1.2 Chemical and physical requirements

The material sampled from any part of the consignment, (see method WHO/M/1.R1), shall comply with the requirements of section 1.1 and with the following requirements.

1.2.1 Identity test

Where the identity of the active ingredient is in doubt, then it shall comply with at least one additional test (CIPAC method 415/TC/M/2).

1.2.2 Bifenthrin content (g/kg basis)

The bifenthrin content shall be declared (not less than 920 g/kg) and, when determined by the method described in section 2.1, the mean measured content shall not be lower than the declared content.

1.2.3 Acidity

The acidity of the material, when determined by the CIPAC method MT 31 (CIPAC Handbook F, p.96), shall not be higher than 4.0 g/kg calculated as H₂SO₄.

1.2.4 Water content

The water content determined by the method described in WHO/M/7,R1 (equivalent to CIPAC method MT 30.5, CIPAC Handbook J, p.120), shall not be higher than 2.0 g/kg.

¹ Before sampling heat the contents of the container to about 80 °C to melt any crystallized active ingredient, and homogenize by appropriate shaking.

1.3 Packing and marking of packages

The technical bifenthrin shall be packed in suitable clean containers, as specified in the order.

All packages shall bear, durably and legibly marked on the container, the following:

Manufacturer's name
Technical bifenthrin
Batch or reference number and date of test
Net weight of contents
Date of manufacture

and the following minimum cautionary notice:

Bifenthrin is a pyrethrold that acts predominantly on the central nervous system; high dosages have been found to cause tremor and clonic convulsions in experimental animals. A high concentration in air may be irritant to the eyes and contact with the concentrated product may induce a temporary lingling sensation, particularly on the face. It may be hazardous if swallowed. Do not inhale spray mist. Avoid skin contact; wear protective gloves, clean protective clothing, and a face mask (surgical type) when handling the product. Wash hands and exposed skin thoroughly after using.

Keep containers out of reach of children and well away from foodstuffs and animal feed and their containers. If polsoning occurs, call a physician. Treatment is symptomatic.

Bifenthrin is toxic to aquatic wildlife. Avoid accidental contamination of water,

2. Methods of determining chemical and physical properties

2.1 Bifenthrin content

2.1.1 Outline of method

This test method describes the analysis of technical bifenthrin and several of its formulations. Improved column technology and method optimization have yielded a method which give results equivalent or superior to previous methods.

Bifenthrin is determined by comparison to an internal standard, octacosane. A test solution containing a known concentration of octacosane is utilized by comparing instrument response (peak area) of the internal standard to the relative response of bifenthrin, taking into account the amount of sample being analyzed.

2.1.2 Apparatus

Analytical Bolance. Capable of accurately weighing to 0.1 mg or equivalent.

Gas Chromatograph. Capable of operating over the range 100 to 300°C, fitted with a flame ionization detector and data collection system and if possible an autosampler.

Graduated Cylinder. 500 mL.

Reciprocating Shaker.

Vials, Minimum 40 mL capacity, with poly-lined cap.

Volumetric Pipette.

Magnetic Stirrer and stir bar.

Column. Megabore DB-210, 30 meter length, 0.53 mm internal diameter, film thickness 1 µm; maximum temperature (isothermal) 200 °C. Available from J&W Scientific, or equivalent.

2.1.3 Reagents

Octacosane, Eastman Kodak Chemical Co or equivalent.

Heptane.

Acetone.

Bifenthrin, Analytical Standard Grade, available from FMC Corporation, Agricultural Chemical Group, Princeton, NJ, USA.

2.1.4 Analytical instrument parameters

Gas Chromatograph parameters (all conditions may be adjusted to optimize results):

Oven Temperature: 205 °C Injection Port Temperature: 240 °C Detector Temperature: 300 °C

Data Station Parameters: (all parameters may be modified to optimize results):

Run Time: 8 minutes
Chart Speed: 0.5 cm/min
Zero: 5% full scale

2.1.5 Determination of response factor "RF"

Weigh 0.1 g of the analytical standard, to the nearest 0.001g, and place into a vial.

Prepare an internal standard stock solution by weighting 2.5 g octacosane, to the nearest 0.01 g, and placing it into a bottle with a capacity of at least 1000 mL. To this add 700 mL of heptane and 175 mL of acetone, which have been measured by a graduated cylinder. Mix well using a magnetic stirrer.

Pipette 40 mL of the internal standard stock solution to the vial containing the analytical standard; mix on reciprocating shaker until dissolved.

Inject 1 µL of the standard solution into the gas chromatograph.

Obtain several chromatograms and measure the peak areas of the internal standard and bifenthrin.

Calculate response factor by the following formula:

$$Rf = \frac{A_h \times WT_{int} \times P_{int}}{A_{int} \times WT_{in} \times P_{in}}$$

Where: Ais = Area internal standard

A_{std} = Area bifenthrin WT_{std} = Weight of standard

WT_{is} = Weight of internal standard P_{std} = Purity of bifenthrin standard P_{is} = Purity of internal standard

2.1.6 Sample preparation

Bifenthrin technical. weight 0.1 g into a vial. Add 40 mL of internal standard stock solution and mix on reciprocating shaker until dissolved.

Inject 1 µL portions of the sample solutions, obtaining three replicate injections for each. Run a standard injection series after every three or four samples.

Calculate percent (%) active ingredient bifenthrin by the following formula:

$$\xi = \frac{A_{spl} \times WT_{is} \times RF \times 100}{A_{is} \times WT_{spl}}$$

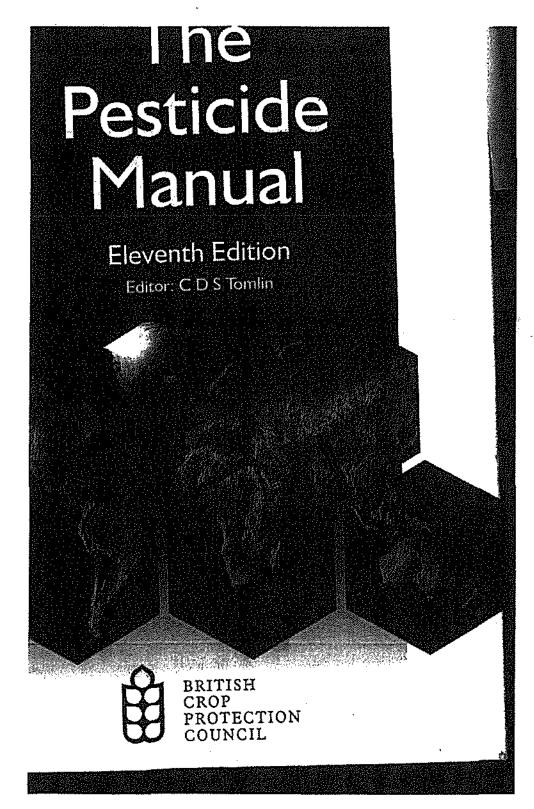
Where: A_{spl} = Area of bifenthrin in sample

WTis = Internal standard weight

RF = Response Factor

Ais = Area of internal standard peak

WT_{spi} = Sample weight



bifenthrin

Insecticide, acaricide

pyrethrold

(Z)-(1S)-cls-

NOMENCLATURE

Common name bifenthrin (BSI, ANSI, draft E-ISO); bifenthrine ((f) draft F-ISO) IUPAC name 2-methylbiphenyl-3-ylmethyl (Z)-(1RS,3RS)-3-(2-chloro=3,3,3-trifluoroprop-1-enyl)-2,2-dimethylcyclopropanecarboxylate
Roth: 2-methylbiphenyl-3-ylmethyl (Z)-(1RS)-cis-3-(2-chloro-3,3,3-trifluoroprop-=1-enyl)-2,2-dimethylcyclopropanecarboxylate
Chemical Abstracts name (2-methyl[1,1'-biphenyl]-3-yl)methyl 3-(2-chloro=3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate
CAS RN [82657-04-3] Development codes FMC 54 800
Official codes OMS 3024

PHYSICAL CHEMISTRY

Composition Material contains ≥97% cis-Isomer, ≤3% trans-Isomer.

Mol. wt. 422.9 M.f. C₂₃H₂₂ClF₃O₂ (form Viscous Ilquid; crystalline or waxy

solid M.p. 51-66 °C V.p. 0.024 mPa (25 °C) K_{ow} logP >6 S.g./density 1.210

(25 °C) Solubility In water, 0.1 mg/l. Soluble in acetone, chloroform, dichloromethane, diethyl ether, and toluene. Slightly soluble in heptane and methanol. Stability Stable for 2 y at 25 °C and 50 °C (tech.). In natural daylight DT₅₀ 255 d, stable 21 d at pH 5-9 (21 °C). F.p. 165 °C (Tag open cup): 151 °C (Pensky Martens closed cup)

COMMERCIALISATION

History Insecticide and acaricide reported by H. J. H. Doel et al. (Meded. Fac. Londbouwwet. Rijksuniv. Gent. 1984, 49, 929) and A. R. Crossman et al. (ibid., p. 939). Introduced by FMC Corp. Manufacturers FMC

118 bifenthrin

#14685

NEGOT DATE: PROJ DATE:

DP BARCODE: D288051

CASE: 072204

DATA PACKAGE RECORD

SUBMISSION: S628277

BEAN SHEET

DATE: 01/29/03 Page 1 of 1

* * * CASE/SUBMISSION INFORMATION * * *

CASE TYPE: REGISTRATION

ACTION: 166 RESB NEW PRO-OC-MIN CHG

RANKING : 10 POINTS ()

CHEMICALS: 128825 Bifenthrin (ANSI)

99.4000%

ID#: 070506-RI BIFENTHRIN TECHNICAL INSECTICIDE/MITICIDE

COMPANY: 070506 UNITED PHOSPHORUS INC

ROOM: CM2 PRODUCT MANAGER: 03 ARNOLD LAYNE 703-305-6249 212 SUSAN STANTON 703-305-5218 PM TEAM REVIEWER: ROOM: CM2 237

DUE OUT DATE: 07/14/03 RECEIVED DATE: 01/15/03

* * * DATA PACKAGE INFORMATION * * *

DP BARCODE: 288051 EXPEDITE: N DATE SENT: 01/29/03 DATE RET.:

HEMICAL: 128825 Bifenthrin (ANSI)

TYPE: 001 Submission Related Data Package

5-6-07 CSF: Y LABEL: Y DATE DATE OUT ADMIN DUE DATE: 0-6/18/03 IN

ASSIGNED TO DIV : RD BRAN: TRB SECT: CHEM REVR : CONTR:

* * * DATA REVIEW INSTRUCTIONS * * *

Attn: Resubmission in Response to Linda Kutney's 12/12/02 review (D285142)

On behalf of United Phosphorus, ChemReg has submitted additional data/information and a corrected CSF to address deficiencies noted in Linda's original review. Please review the company's response, including the new CSF and data (MRID#458380-01), and determine whether it adequately addresses TRB's concerns. Copies of the cover letter, data and CSF are attached, along with TRB's original review and the company's original product chemistry submission (for reference.).

If you need anything else, please give me a call.

Thanks, Susan Stanton

* * * DATA PACKAGE EVALUATION * * *

No evaluation is written for this data package

* * ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION * *

DP BC BRANCH/SECTION DATE OUT DUE BACK INS CSF LABEL DATE:

May 20, 2003

SUBJECT:

Product Chemistry Review of Bifenthrin Technical

FROM:

Linda L. Kutney

Product Chemistry Team

hende L. Kustury 5/21/03 5/21/03.

TO:

Cynthia Giles-Parker, Susan Stanton PM 3

Technical Review Branch/RD (7505C)

Insecticide Branch/RD (7505C)

DP BARCODE:

D288051

EPA REG. NO.:

70506-RI

REGISTRANT:

United Phosphorus, Inc.

USE:

Insecticide

INTRODUCTION:

United Phosphorus, Inc. has submitted additional product chemistry data to support the registration of "Bifenthrin Technical. Insecticide/Miticide" in response to TRB's 12/11/02 review, D285142. The revised proposed basic CSF is dated 1/9/03.

This proposed label is for inseciticide/miticide non-food use, including as a termiticide and soil contact nonfumigation treatment, as wood treatment and protection, as outdoor insect control, on ornamental plants, trees, shrubs and woody vines, residential lawns and for indoor insect control., spot or crack and crevice treatment in non-food areas. Use in food or feed areas is prohibited. The product chemistry data has been submitted under 4583800 I and previously under MRIDs 45654401, 45654402 and 45654403.

In their letter of 4/8/02, United Phosphorus claimed similarity to FMC's Bifenthrin Technical, Reg. No. 279-3055, containing 94.0% of Bifenthrin ai, and a minimum of 97% cis isomers and a maximum of 3% of trans isomers, as listed on the label accepted 6/21/01. No minimum of trans Bifenthrin isomers was included on the approved label.

SUMMARY OF FINDINGS:

- 1. The description of materials used to produce the product satisfies the data requirements of guideline 830.1600 (40CFR§ 158.160).
- 2. The description of production process satisfies the data requirements of guideline reference 830.1620 (40CFR§158.162).
- 3. The discussion on the formation of impurities satisfies the data requirements of guideline reference 830.1670 (40CFR§158.167).
- 4. Data requirements for oxidation-reduction, flammability, explodability, pH, melting point, boiling point, density, and dissociation constant now satisfy the data requirements of guideline references 830.6314, 830.6315, 830.6316, 830.7000, 830.7200, 830.7220, 830.7300, and 830.7370, respectively.
- 5. The density and pH are now included in blocks 7 and 8 of the revised CSF, in agreement with the study results, as required.
- 6. The "non-applicable" flash point given in block 9 of the CSF is now supported by study results, as required.
- 7. The chemical name for bifenthrin is now included in column 10 of the CSF, as required. ν
- 8. The minimum and maximums listed in column 10 for cis and trans isomers of bifenthrin correspond to the fractions of total bifenthrin. The minimum amount of cis isomer given in column 14b and the maximum value of trans isomer given in column 14a of the CSF are calculated correctly.
- 9. The Analytical Method (guideline reference 830.1800, 40CFR158.180) indicates that cis and trans bifenthrin is adequately separated and quantitated
- 10. The Registrant has agreed that samples will be submitted to the Agency laboratory upon registration of the product. Guideline 830.1900, (40CFR158.190) is satisfied.

CONCLUSION:

TRB has determined that Bifenthrin Technical Insecticide/Miticide is not substantially similar to FMC's Bifenthrin Technical, Reg. No. 279-3055, from a physical chemistry standpoint due partly to the fact that it has a density of 3.83 lb/gal. as opposed to 10.5 lb/gal for FMC's Bifenthrin Technical, Reg. No. 279-3055. In addition the minimum concentration of the active cis portion of Bifenthrin does not fall between the UCL and LCL for the cited, registered product.

The proposed CSF, dated 2/8/02 is acceptable with the comment we recommend column 10 of the CSF be revised to list the parenthetical expressions as follows:

-that the cis isomer include the statement '97% minimum of total Bifenthrin' and the -trans isomer include the statement '3% maximum of total Bifenthrin' for additional clarity.

For full registration, United Phosphorus must submit the following <u>Subgroup B</u> physical chemical studies (See 40CFR Section 190):

STUDY:	GUIDELINE REFERENCE#;
Storage stability	830.6317
Corrosion Characteristics	830.6320
The following product chemistry requirements are still not satisfied:	
Partition coefficient (n-oct/water)shake flask method	830.7550
Water Solubility column elution method, shake flask method	830.7840
Solubility in organic solvents	

BARCODE: D285142; Reg. No. 70506-RI PRODUCT: Bifenthrin Tech Insecticide/Miticide

830.1550, Product Identity:

Common Name: Bifenthrin Technical

Chemical Name: "(2-methyl[1,1'-biphenyl]-3-yl)methyl-3-(2-chloro-3,3,3-trifluoro-1-

propenyl)-2,2-dimethylcyclopropanecarboxylate."

CAS No.: 82657-04-3 for cis isomer, 83322-02-3 for trans isomer

PC Code No.: 128825 for cis and trans mix

Empirical formula: C23 H22 CI F3 O2

Molecular Weight: 422.9 g/Mole
Structural formula and additional product identity data (from MRID 456544-01)

Trade Name: Hitenthrin Technical
Molecular Pormuta: C22U22CW2O1

Molecular Weight: Structural Formula: 422.9 CL F

BARCODE: <u>D285142</u>; Reg. No. <u>70506-RI</u> PRODUCT: <u>Bifenthrin Tech, Insecticide/Miticide</u> REVIEW OF PRODUCT CHEMISTRY, OPPTS 830 SERIES

Table 1: Manufacturing and Impurity Data for United Phosphorus 's Bifenthrin T/TGAI.						
GLN	Requirement	MRID	Stat us ^t	Details and/or Deficiency		
830, 1550	Product identity and composition	CSF 1/9/03 45654401	А	Nominal concentrations and certified limits for the AI & all the impurities provided in the CSF agree with the study results in MRID 45654401.		
830. 1600	Description of materials used to produce product	45654401	Α	The product specification sheets (MSDS) for the starting materials were submitted.		
830. 1650	Description of production process	45654401	A	The registrant provided detailed information about the synthesis of the technical. Amounts of each starting material and the conditions of the reaction were provided.		
830. 1670	Discussion of formation of impurities	45654401	Α,	The registrant provided the required information on the formation of impurities.		
830. 1700	Preliminary analysis	45654401	A	Method validation indicates that the method is adequate for the determination of the ai. Analysis was conducted on 5 production batches of the ai.		
830. 1750	Certified limits	1/9/03 CSF	A	The certified limits given in the CSF are in agreement with the study.		

Table 1: Manufacturing and Impurity Data for United Phosphorus 's Bifenthrin T/TGAI.						
GLN	Requirement	MRID	Stat us ¹	Details and/or Deficiency		
830. 1800	Enforcement analytical method	45654401	A	"HPLC Method for Determination of Bifenthrin" Compilation Report UPI-Bifentec-A., dated 3/19/02. Bifenthrin test sample is dissolved in HPLC grade acetonitrile, and an aliquot is subjected to reverse phase LC. The cis and trans isomers are combined in a single LC peak and then separate quantitation accomplished using UV detection at 254 nm, using external standard quantitation.		
830. 1900	Submission of Samples	1/15/03 Chem Reg. Letter	N	Samples will be provided prior to registration.		
¹ A ≔ Acc	eptable; N = Un	acceptable (se	e Defic	iency); N/A = Not Applicable.		

⁻⁶⁻

BARCODE: <u>D285142</u>; Reg. No. <u>70506-RI</u> PRODUCT: <u>Bifenthrin Tech.Insecticide/Miticide</u>

Table 2: Ph	ysical and Chemical Propertie	s for the <i>BIFE</i>	THRIN	technical.
GLN	Requirement	MRID	Stat- us ¹	Result or Deficiency
830,6302	Color	45654402	A	White
830.6303	Physical state	45654402	A	Solid Powder
830.6304	Odor	45654402	A	None
830.6313	Stability to normal & elevated temperatures, metals, and metal ions.	45654403 Letter of 1/15/03	A	Waiver Granted. Material is stored and shipped in HDPE-not in contact with metal.
830,6314	Oxidation Reduction: chemical incompatibility	45654401	A	Not reported to contain oxidizing or reducing agents.
830.6315	Flammability	45654401	A	Not flammable
830.6316	Explodability	45654401	A	Does not contain explosive components
830.6317	Storage stability	45654403	N	No significant change noted after storage at 54 ± 2 C for 14 days. Stability Testing at 3,6, 9, 12, 18, and 24 months is required for full registration.
830,6319	Miscibility	<u>-</u>	NA	Not a liquid at 20 C.

Table 2: Physical and Chemical Properties for the BIFENTHRIN technical.					
GLN	Requirement	MRID	Stat- us ¹	Result or Deficiency	
830.6320	Corrosion characteristics	45654403	N	No significant change was noted after storage at 54 ± 2 C for 14 days. Corrosion Characteristics Testing at 3,6, 9, 12, 18, and 24 months is required for full registration.	
830.6321	Dielectric Breakdnwn Voltage	-	A	Not Required. Not used around electrical equipment.	
830,7000	pH	45654401	A	6.52 ± 0.03	
830,7050	UV/Visible absorption		A	NA Not a liquid at 20 C.	
830.7100	Viscosity	· <u>-</u>	A	NA Not a liquid at 20 C.	
830.7200	Melting point/range	45654401	A	68-71 C	
830.7220	Boiling point/range		A	NA Not a liquid at 20 C.	
830.7300	Density/relative density/ bulk density	45654401	A	Density 0.4593 = 3.83 lb/gal Specific gravity 0.3762	
830.7370	Dissociation constant in water	45654401	A	NA Product does not ionize in water	
830.7550	Partition coefficient (n-octanol/water) shake flask method	-	N		
830.7840	Water solubility: column elution method; shake flask method Solubility in organic solvents		N		

Table 2: Physical and Chemical Properties for the BIFENTHRIN technical.						
GLN	Requirement MRID Stat- Result or Deficiency us ¹					
830,7950	Vapor pressure	-	NA	Not a liquid at 20 C		

A = Acceptable; N = Not Acceptable (see Deficiency); NA = Not applicable.
For example, "brown" for 830.6302; "155° C" for 830.7200.







UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND
TOXIC SUBSTANCES

(Junt 1) and - 1003

January 8, 2003

MEMORANDUM

Product Name: BIFENTHRIN TECHNICAL INSECTICIDE/MITICIDE

EPA File Symbol: 70506-RI DP Barcode: D285143 Case No: 072204

Submission: S620915

Chemical: 128825 Bifenthrin

From: Byron T. Backus, Ph.D., Toxicologist

Technical Review Branch Registration Division (7505C)

To: Susan Stanton/Amold Layne, PM 03

Insecticide-Rodenticide Branch Registration Division (7505C)

Registrant: UNITED PHOSPHORUS INC.

ACTION REQUESTED: "United Phosphorus, Inc. has submitted an application to register a new bifenthrin technical product, claiming substantial similarity to FMC's registered technical. They wish to rely on acute toxicity data for FMC's technical to fulfill all of the acute tox requirements except oral and dermal toxicity. They have submitted their own oral toxicity (MRID#456544-04) and dermal toxicity (MRID#456544-05) studies. Please determine whether the submitted studies are acceptable and whether they may rely on FMC's data for the other acute toxicity requirements (i.e., is the product substantially similar to FMC's registered technical). Copies of the labels and CSFs for the new product and cited product (EPA Reg. No. 279-3055) are included for your information and review. Note: I was unable to locate a review of the cited acutes; however, I have a very recent draft risk assessment for bifenthrin from HED which includes the acute tox profile for bifenthrin technical based on the cited studies, except the inhalation study..."

<u>BACKGROUND</u>: According to the copy of the proposed label received by TRB, this product [EPA File Symbol: 70506-RI: Bifenthrin Technical Insecticide/Miticide] has the following ingredient declaration:

Active Ingredient:

Bifenthrin (2-met	hyl[1,1'-biphenyl]-3-yl) methyl 3-(2-chloro-:	3,3,3-trifluoro-1-
propenyl)-2,2-dir	nethylcyclopropanecarboxylate*	99.4%
Inert Ingredients:		0.6%

As part of this package, TRB has received the following two acute toxicity studies: acute oral LD50 in rats (MRID 45654404); and acute dermal LD50 in rats (MRID 45654405).

COMMENTS AND RECOMMENDATIONS:

- 1. The two submitted acute toxicity studies (MRIDs 45654404 and 45654405) have been reviewed and have been classified as acceptable.
- 2. While the dermal toxicity study (MRID 45654405) has been classified as acceptable, The report states that in one preliminary range finding study mortality (in 1/4 rats at 500 mg/kg, 1/4 at 1000 mg/kg, and 2/4 at 2000 mg/kg) was observed; this was followed by a "main study" at 700, 1260 and 2268 mg/kg. "As sufficient mortality was not observed in the main study, the dose range finding study was conducted again using the dose levels of 500, 1000 and 2000 mg/kg...and the percent mortality observed was 0, 25 and 25, respectively." This information is considered as 6(a)(2) data [refer to CFR40 §152.125], and a more detailed report (which should include how the test material was applied and differences, if any, between the protocol(s) used in the preliminary studies and the final study) should be submitted to the Agency.
- 3. From the summary listing of the acute toxicity profile of Bifenthrin, it is noted that a primary eye irritation study in MRID 00132522 indicates the existing (FMC) registration for technical bifenthrin is in toxicity category IV by this exposure route. Because there may be subtle physical and/or chemical differences between the two technicals, TRB recommends that, in lieu of an actual eye irritation study for the proposed United Phosphorus Bifenthrin Technical, that it be placed in toxicity category III in terms of eye irritation potential. This is consistent with the proposed labeling for this product (which includes a FIRST AID statement for eye exposure, as well as the precautionary statement: "Causes moderate eye irritation." The remainder of the precautionary labeling (addressing inhalation toxicity, dermal irritation and dermal sensitization potentials) should then be consistent with the existing labeling for FMC technical bifenthrin.

4. Based on the results of the reviewed acute toxicity studies, as well as the considerations indicated above, the following is the acute toxicity profile for EPA File Symbol 70506-RI BIFENTHRIN TECHNICAL INSECTICIDE/MITICIDE:

Acute Oral LD50	Acceptable	Tox. Cat. II (MRID 45654404)
Acute Dermal LD50	Acceptable	Tox. Cat. III (MRID 45654405)
Acute Inhalation LC50	Cited	Tox. Cat. III(?)*
Primary Eye Imitation	Cited	Tox. Cat. III**
Primary Dermal Irritation	Cited	Tox. Cat. IV
Dermal Sensitization	Cited	Negative

^{*}Summary sheet indicates no existing inhalation toxicity studies. Label for this proposed product is consistent with toxicity category III, and this is acceptable if the FMC product is also in toxicity category III by this exposure route.

5. Based on the acute toxicity profile given above and based on the proposed label use directions, the following is the precautionary labeling for this product, as obtained from the Label Review System:

PRODUCT ID #:

070506-00018

PRODUCT NAME: BIFENTHRIN TECHNICAL INSECTICIDE/MITICIDE

PRECAUTIONARY STATEMENTS

SIGNAL WORD: WARNING

Hazards to Humans and Domestic Animals:

May be fatal if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye Irritation. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

^{**}Summary sheet indicates the FMC product is in toxicity category IV by this exposure route. As slight physical and/or chemical differences may impact on eye irritation potential, TRB recommends that, in lieu of a primary eye irritation study on the United Phosphorus Technical Bifenthrin, that it be assigned to toxicity category III by this exposure route. This is consistent with the labeling proposed for this product by United Phosphorus.

First Ald:

If swallowed:

- -Call a poison control center or doctor immediately for treatment advice.
- -Have person sip a glass of water if able to swallow.
- -Do not induce vomiting unless told to by a poison control center or doctor.
- -Do not give anything to an unconscious person.

If on skin:

- -Take off contaminated clothing.
- -Rinse skin immediately with plenty of water for 15-20 minutes.
- -Call a poison control center or doctor for treatment advice.

If inhaled:

- -Move the person to fresh air.
- -If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- -Call a poison control center or doctor for further treatment advice.

If In eyes:

- -Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- -Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- -Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN: Note to PM/CRM/Registrant: The proposed label should contain a "Note to Physician". The following statements are suggested types of information that may be included, if applicable: - technical information on symptomatology; - use of supportive treatments to maintain life functions; - medicine that will counteract the specific physiological effects of the pesticide; - company telephone number to specific medical personnel who can provide specialized medical advice.

Have the product container or label with you when calling a polson control center or doctor or going for treatment. You may also contact 1-800-xxx-xxxx for emergency medical treatment information.

DATA REVIEW FOR ACUTE ORAL TOXICITY TESTING (870.1100, formerly §81-1)

Product Manager: 03 MRID No.: 45654404

Reviewer: Byron T. Backus, Ph.D.

CITATION: Tiwari, V.K. Acule Oral Toxicity Study of Bifenthrin Technical in Rats. JRF Study No. 3415. Unpublished study prepared by Department of Toxicology, Jai Research Foundation, Valvada 396108, Gujarat, India. Final Report Date: FEB-9-2002. MRID 45654404.

SUBMITTER & SPONSOR: UNITED PHOSPHORUS INC.

TEST MATERIAL: Bifenthrin Technical; (2-methyl[1,1'-biphenyl]-3-yl)methyl 3-(2-chloro-3,3,3-tnfluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate; CAS 82657-04-3; purity 99.2%, a white powder

SPECIES: Rat, Wistar

AGE(at dosing): young adult, 9 weeks

WEIGHT (presumably fasted): Males: 204-270 g; Females: 194-235 g

SOURCE: Breeding facility, Jal Research Foundation

EXECUTIVE SUMMARY: In an acute oral toxicity study (MRID 45654404), fasted (17+ hrs) young adult (9 week old) Wistar rats (5 males and 5 females/dose level) were orally gavaged with Bifenthrin Technical (a white powder containing 99.2% active) in peanut oil at a constant dose volume of 10 mL/kg. Doses in the main study were 0 (vehicle only), 50, 79 and 125 mg/kg.

At 50 mg/kg 0/5M & 2/5F died; at 79 mg/kg 4/5M & 2/5F died; at 125 mg/kg 5/5M & 3/5F died. All deaths were within 24 hours of dosage. Symptoms at all dose levels included tremors and nasal discharge; other observations (at 79 mg/kg and above) included abdominal breathing, nasal irritation and piloerection. At 125 mg/kg symptoms also included tonic-clonic convulsions in all animals. Survivors were generally normal by Day 3. All survivors had weight gains from Day 0 to Day 7 and again from Day 7 to Day 14, with the exception of one 50 mg/kg female who had the same bodyweight on Day 7 and Day 14.

The rats which died showed findings which included mottling or congestion of the liver and mottling or congestion of the lungs. 13/16 rats found dead had pulmonary congestion, and it is reported that this is a common finding in dead animals with no particular pathological significance. Findings in terminally sacrificed animals were categorized as spontaneous/accidental.

Oral LD50 Males = 66.19 (95% C.L. of 54.48 to 77.90) mg/kg Oral LD50 Females = 91.89 (95% C.L. of 26.67 to 316.63) mg/kg Oral LD50 Combined = 74.90 (95% C.L. of 57.29 to 97.92) mg/kg

Bifenthrin technical, a white powder containing 99.2% active ingredient, is in toxicity category il in terms of oral toxicity.

Study Classification: Acceptable

COMPLIANCE: Signed and dated GLP Compliance (p. 3), Quality Assurance (p. 5), and [No] Data Confidentiality (p. 2) statements were provided.

Procedure (Including deviations from 870.1100): Following preliminary range-finding testing, "four groups of rats, each dose group comprising 5 males and 5 females, were randomly selected and three groups were given a single dose of bifenthrin technical at dose levels of 50, 79 and 125 mg/kg... As the test substance is insoluble in water, it was suspended in peanut oil at the required concentrations prior to dosing. The dose solution was stirred to ensure that there were no visible precipitates. Another group was administered peanut oil at a constant dose volume of 10 mL/kg...as control. A dose volume of 10 mL/kg body weight was calculated for each rat. All animals were dosed once by gavage (day 0) using a metal cannula... Animals were deprived of feed for seventeen hours and fifteen minutes prior to dosing and then three hours after dosing."

Results:

	Num	ber of Deaths/Number T	ested			
Dosage (mg/kg)	Males Females Total					
0 (vehicle oпly)	0/5	0/5	0/10			
50	0/5	· 2/5	2/10			
79	4/5	. 2/5	6/10			
125	5/5	3/5	8/10			

Observations: All deaths were within 24 hours of dosage. Symptoms at all dose levels included tremors and nasal discharge; other observations (at 79 mg/kg and above) included abdominal breathing, nasal irritation and piloerection. At 125 mg/kg symptoms also included tonic-clonic convulsions in all animals. Survivors were generally normal by Day 3. All survivors had weight gains from Day 0 to Day 7 and again from Day 7 to Day 14, with the exception of one 50 mg/kg female who had the same bodyweight on Day 7 and Day 14.

Gross Necropsy: The rats which died showed findings which included mottling or congestion of the liver and mottling or congestion of the lungs. 13/16 rats found dead had pulmonary congestion, and it is reported that this is a common finding in dead animals with no particular pathological significance. Findings in terminally sacrificed animals were categorized as spontaneous/accidental.

DATA REVIEW FOR ACUTE DERMAL TOXICITY TESTING (870.1200, formerly §81-2)

Product Manager: 03 Reviewer: Byron T. Backus, Ph.D.

MRID No.: 45654405

CITATION: Tiwari, V.K. Acute Dermal Toxicity Study of Bifenthrin Technical in Rats. JRF Study No. 3416. Unpublished study prepared by Department of Toxicology, Jai Research Foundation, Valvada 396108, Gujarat, India. Final Report Date: FEB-9-2002. MRID 45654405.

SUBMITTER & SPONSOR: UNITED PHOSPHORUS INC.

TEST MATERIAL: Bifenthrin Technical; (2-methyl[1,1'-biphenyl]-3-yl)methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate; CAS 82657-04-3; purity 99.2%, a white powder

SPECIES: Rat, Wistar

AGE(at dosing): not stated; presumably young adult (consistent with body weight data)

WEIGHT: Males: 229-282 g; Females: 216-259 g SOURCE: Breeding facility, Jai Research Foundation

EXECUTIVE SUMMARY: In an acute dermal toxicity study (MRID 45654405), groups of 5M & 5F young adult Wistar rats were dermaily exposed for 24 hrs (occluded exposure) to either 2000 mg/kg Bifenthrin technical (a white powder with 99.2% purity) mixed with an unspecified amount of peanut oil "to give a siurry," or to 0.2 mL of peanut oil alone.

There were no mortalities. 9/10 of the rats exposed to bifenthrin showed symptoms (tremors) on Day 3, and two of these rats (both males) also had tremors and piloerection on Days 4-5. All rats were normal from Day 6 through Day 14. All 5 males had bodyweight gains in the period from Day 0 to Day 7, but all 5 females had weight losses during this period; 5/5 males and 4/5 females had bodyweight gains in the period from Day 7 to Day 14.

Necropsy findings (pinpoint lung hemorrhages in one male; bilateral uterine hydrometra in one female) were considered spontaneous and unrelated to exposure to bifenthrin.

The report states that in one preliminary range finding study mortality (in 1/4 rats at 500 mg/kg, 1/4 at 1000 mg/kg, and 2/4 at 2000 mg/kg) was observed; this was followed by a "main study" at 700, 1260 and 2268 mg/kg. "As sufficient mortality was not observed in the main study, the dose range finding study was conducted again using the dose levels of 500, 1000 and 2000 mg/kg...and the percent mortality observed was 0, 25 and 25, respectively." This information is considered as 6(a)(2) data, and a detailed report should be submitted to the Agency.

Dermai LD50 Males > 2000 mg/kg (0/5 died at this dose level)
Dermal LD50 Females > 2000 mg/kg (0/5 died at this dose level)
Dermai LD50 Combined > 2000 mg/kg (0/10 died at this dose level)

Bifenthrin technical, a white powder containing 99.2% active, is in toxicity category ill in terms of dermal toxicity, based on the dermal LD50 > 2000 mg/kg.

Study Classification: Acceptable

COMPLIANCE: Signed and dated GLP Compliance (p. 3), Quality Assurance (p. 5), and [No] Data Confidentiality (p. 2) statements were provided.

Procedure [Including deviations from 870.1200): "A dose range finding study for bifenthrin technical was performed using four (2 male and 2 female) animals per group. The per cent mortality observed were 25, 25 and 50 at the dose levels of 500, 1000 and 2000 mg/kg body weight. Based on above results, main study was conducted at the dose level of 700, 1260 and 2268 mg/kg body weight. As sufficient mortality was not observed at the main study, the dose range finding study was conducted again using the dose levels of 500, 1000 and 2000 mg/kg body weight and the per cent mortality observed was 0, 25 and 25, respectively. Therefore, the study was conducted as a limit study using 2000 mg/kg body weight."

"Depending on the result of the range finding study, two groups of rats, comprising 5 males and 5 females per group, were randomly selected...and one group was given dermal application of bifenthrin technical at the dose level of 2000 mg/kg body weight. As bifenthrin technical was insoluble in water, the measured/calculated quantity of bifenthrin technical was mixed with peanut oil, to give a slurry, for even application on the exposed part of the skin. The other group of ten animals (5 male and 5 female), which served as control, was simultaneously treated with 0.2 mL of peanut oil and maintained in similar experimental conditions. The test substance was held in contact with the skin with a porous gauze dressing (not more than 8 ply) and Medi tape 330 hypo-allergic surgical tape...throughout the 24 hour of exposure period to prevent evaporation of the test substance and to ensure that the animals did not ingest it. At the end of the exposure period, the residual test substance was removed using cotton moistened with distilled water."

Results:

Dancas (mailte)	Num	ber of Deaths/Number T	ested
Dosage (mg/kg)	Males Female:		Combined
0 .	. 0/5	0/5	0/10
2000	0/5	0/5	0/10

Observations: None of the rats showed any clinical signs from Day 0 to Day 2. 5/5 males and 4/5 females had tremors on Day 3; all but 2 males had recovered the following day. The 2 males showed tremors and piloerection on Days 4 and 5, but were normal on Day 6. All 5 males gained weight in the period from Day 0 to Day 7, while all 5 females lost weight during this same period. All males continued to gain weight in the period from Day 7 to Day 14, but one female lost weight during this period and 3 others, although gaining some weight, had still lost a few grams from their initial (Day 0) weight.

Gross Necropsy: 2000 mg/kg: 3/5 males and 4/5 females had NAD (No abnormalities detected). One male had pin-point hemorrhages (mild) of the lungs; the other male had blotched kidneys and a few pin-point hemorrhages of the lungs. One female had partial consolidation in the right cranial lobe of the lung.

ACUTE TOX ONE-LINERS

1. DP BARCODE: D285143 2. PC CODE: 128825 Bifenthrin

3. CURRENT DATE: January 8, 2003

4. TEST MATERIAL: EPA File Symbol 70506-RI; Bifenthrin Technical; (2-methyl[1,1'-biphenyl]-3-yl)methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate; CAS 82657-04-3; punty 99.2%, a white powder

Study/Species/Lab Sludy #/Date	MRID	Results	Tox. Cat.	Core Grade
Acute oral toxicity/rat/ Jai Research Foundation Gujarat India/Study No. 3415/FEB-9-2002	45654404 -	$LD_{so}(M) = 66.2 (54.5-77.9) \text{ mg/kg}; LD_{so}(F) = 91.9 (26.7-316.6) \text{mg/kg}; LD_{so} (Combined) = 74.9 (57.3-97.9) mg/kg. Dose levels: 50, 79 & 125 mg/kg of test malerial in peanut oil at a constant dose volume of 10 mL/kg. Symptoms at all dose levels included tremors and nasal discharge; other observations (at 79 mg/kg and above) Included abdominal breathing, nasal irritation and piloerection. At 125 mg/kg symptoms also included tonic-clonic convulsions. Survivors were generally normal by Day 3.$		
Acute Dermal Toxicity/rat/ Jai Research Foundation Gujarat India/Study No. 3416/FEB-9-2002.	45654405	There were no mortalities among 5M & 5F dermally exposed to 2000 mg/kg. 9/10 rats had tremors on Day 3, and 2 of these (both males) had tremors and piloerection on Days 4-5. All rats were normal Days 0-2, Days 6-15. All 5M had bodyweight gains in the period from Day 0 to Day 7, but all 5F had weight losses; 5/5 males and 4/5 females had bodyweight gains in the period from Day 7 to Day 14. Necropsy findings (pinpoint lung hemorrhages in one male; bilateral utenne hydrometra in one female) were considered spontaneous and unrelated to exposure to bifenthrin. Report states that in a preliminary range finding study 1/4 rats at 500 mg/kg, 1/4 at 1000 mg/kg, and 2/4 at 2000 mg/kg dled; followed by a "main study" at 700, 1260 and 2268 mg/kg. "As sufficient mortality was not observed in the main study, the dose range finding study was conducted again using the dose levels of 500, 1000 and 2000 mg/kg and the percent mortality observed was 0, 25 and 25, respectively."		A

Core Grade Key: A =Acceptable, S = Supplementary, U = Unacceptable, V = Self Validated

U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs

UNITED PHOSPHOROUS, INC. 423 RIVERVIEW PLAZA TRENTON, NJ 08611

Report of Analysis for Compliance with PR Notice 86-5

Thank you for your transmittal of 01/15/03. Our staff has completed a preliminary analysis of the material. The results are provided as follows:

Your submittal was found to be in full compliance with the standards for submission of data contained in PR Notice 86-5. A copy of your bibliography is enclosed, annotated with Master Record ID's (MRIDs) assigned to each document submitted. Please use these numbers in all future references to these documents. Thank you for your cooperation. If you have any questions concerning this data submission, please raise them with the cognizant Product Manager, to whom the data have been released.



TRANSMITTAL DOCUMENT

Submitter United Phosphorus, Inc

United Phosphorus, Inc. 740 Springdale Drive Suite 204 Exton, PA 19341

ChemReg International, LLC* 2239-H Tacketts Mill Drive Lake Ridge, VA 22192-3026

*ChemReg International is the authorized representative for United Phosphorus, Inc.

Regulatory action in support of which this package is submitted

New Product Registration ("Me-Too")
(Bifenthrin Technical Insecticide/Miticide 70506-RI)

Transmittal Date January 13, 2003

Submitted Studies

	MRID	
		Administrative Materials .
Document 1:	45838001	Brown, E.A. January 9, 2003. Bifenthrin Technical Insecticide. Physical & Chemical Properties (Group B). Compilation Report No. UPI-BIFTECH-B.

Company Official

Ylijaner are Grown

Company Name:

ChemReg International, LLC., Authorized Representative for UPI

Company Contact:

Elizabeth Anne Brown

Phone Number:

703-492-7905

Pleace reed instructions on reve	rse before completing form		<u> </u>			0, Approval expires 5-31-98		
	Unite	ed States		Registration		OPP Identifier Number		
& EPA	Environmental Protection Agency				nt			
		on, DC 20460		X Other				
	Application for Pesticide – Section i							
Company/Product Number 70506-Ri	r		2. EPA Product I George LaRocca		3. Propos	ed Classification		
4. Company/Product (Name)			PM#		Non	e Restricted		
Bitenthrin Technical Insectici 5. Name and Address of App			6. Expedited Re	view. in accordant	o with FIF	RA Section 3(e)(3)		
United Phosphorus, inc. 423 Riverview Plaza	, ,			is similar or identic	al in compo	sition and labeling		
Trenton, NJ 08611			to: EPA Reg No.					
Check If this is a new a	ddress	_	Product Name					
		Secti	ion - ii					
Amendment - Explain I	wolac		Final print	ed labels in respons	se to			
X Resubmission in respon	nse to Agency letter dated	Dec 12 2002	Agency le	lter daled Application				
The designation in respon	me in utherry latter region (KAN IN CAAS	ING 100 /	ryphoalioti				
Notification - Explain be	elow		Other - E	woled nietox		,		
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Explanation: Use additional	page(s) if necessary. (For	Section I and Se	ction II.)					
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1. Material This Product Will								
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be submitted	Unit Packaging wgt.		ckage wgt	container		er (Specify)		
3. Location of Net Contents I		4 65-63 0-64	I Cantalana	15.72				
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Name	a manna unidouy Delow (of R)	Title		Teleph	one No. (in	clude Area Code)		
Elizabeth Anne Brown		ChemReg Authorized	Infernational, LLC acent	703-49	2-7905			
Certification 6. Date Application								
I certify that the statements I I I acknowledge that any knowle						Received		
both under applicable law	F1 A	3. Title		• • • • • • • • • • • • • • • • • • • •		(Stamped)		
2. Signature	1					forembent		
Elizaner arce B	acur.	Authorized	international, LLC Agent					
4. Typed Name	4. Typed Name 5. Date				ļ			
Elizabeth Anna Brown		Januery 15	, 2003		ļ. 			
EPA Form 8570-1 (Rev. 8-94)	Previous editions are obsole	te.	Wh	ite - EPA File Copy (Original)	Yetlow - Applicant Copy		

DP BARCODE: D285143

CASE: 072204 DATA PACKAGE RECORD SUBMISSION: S620915

BEAN SHEET

DATE: 08/30/02 Page 1 of 2

14055

* * * CASE/SUBMISSION INFORMATION * * *

ACTION: 166 RESB NEW PRO-OC-MIN CHG CASE TYPE: REGISTRATION

RANKING : 10 POINTS ()

CHEMICALS: 128825 Bifenthrin (ANSI)

99.4000%

ID#: 070506-RI BIFENTHRIN TECHNICAL INSECTICIDE/MITICIDE

COMPANY: 070506 UNITED PHOSPHORUS INC

PRODUCT MANAGER: 03 ARNOLD LAYNE 703-305-6249 ROOM: CM2 212 SUSAN STANTON PM TEAM REVIEWER: 703-305-5218 ROOM: CM2

RECEIVED DATE: 08/30/02 DUE OUT DATE: 02/26/03

* * * DATA PACKAGE INFORMATION * * *

DP BARCODE: 285143 EXPEDITE: N DATE SENT: 08/30/02 DATE RET.:

CHEMICAL: 128825 Bifenthrin (ANSI)

TYPE: 001 Submission Related Data Package

12-9-02 CSF: Y LABEL: Y ADMIN DUE DATE: 01/17/03 ASSIGNED TO DATE IN DATE OUT DIV : RD NEGOT DATE: BRAN: TRB PROJ DATE:

SECT: TOX REVR : CONTR:

* * * DATA REVIEW INSTRUCTIONS * * *

United Phosphorus, Inc. has submitted an application to register a new bifenthrin technical product, claiming substantial similarity to FMC's registered technical. wish to rely on acute toxicity data for FMC's technical to fulfill all of the acute tox requirements except oral and dermal toxicity. They have submitted their own oral toxicity (MRID#456544-04) and dermal toxicity (MRID#456544-05) studies. Please determine whether the submitted studies are acceptable and whether they may rely on FMC's data for the other acute toxicity requirements (i.e., is the product substantially similar to FMC's registered technical). Copies of the labels and CSFs for the new product and cited product (EPA Reg. No. 279-3055) are included for your information and review. Note: I was unable to locate a review of the cited acutes; however, I have a very recent draft risk assessment for bifenthrin from HED which includes the acute tox profile for bifenthrin technical based on the cited studies, except the inhalation study. I can't find any information on the cited inhalation study. A copy of the acute toxicity table from HED's draft memo is included for your information.

Thanks, Susan Stanton DP BARCODE: D285143

with the

CASE: 072204 DATA PACKAGE RECORD (CONTINUED) DATE: 08/30/02

SUBMISSION: S620915 BEAN SHEET Page 2 of 2

* * * DATA PACKAGE EVALUATION * * *

No evaluation is written for this data package

* * * ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION * * *

DP BC BRANCH/SECTION DATE OUT DUE BACK INS CSF LABEL 285142 TRB/CHEM 08/30/02 01/17/03 Y Y Y



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIOES **TOXIC SUBSTANCES**

Agrant 1) and - 1003

January 8, 2003

MEMORANDUM

Product Name: BIFENTHRIN TECHNICAL INSECTICIDE/MITICIDE

EPA File Symbol: 70506-RI DP Barcode: D285143 Case No: 072204

Submission: S620915 Chemical:

128825 Bifenthrin

From: Byron T. Backus, Ph.D., Toxicologist

Technical Review Branch Registration Division (7505C)

To: Susan Stanton/Arnold Lavne, PM 03

> Insecticide-Rodenticide Branch Registration Division (7505C)

Registrant: UNITED PHOSPHORUS INC.

ACTION REQUESTED: "United Phosphorus, Inc. has submitted an application to register a new bifenthrin technical product, claiming substantial similarity to FMC's registered technical. They wish to rely on acute toxicity data for FMC's technical to fulfill all of the acute tox requirements except oral and dermal toxicity. They have submitted their own oral toxicity (MRID#456544-04) and dermal toxicity (MRID#456544-05) studies. Please determine whether the submitted studies are acceptable and whether they may rely on FMC's data for the other acute toxicity requirements (i.e., is the product substantially similar to FMC's registered technical). Copies of the labels and CSFs for the new product and cited product (EPA Reg. No. 279-3055) are included for your information and review. Note: I was unable to locate a review of the cited acutes; however, I have a very recent draft risk assessment for bifenthrin from HED which includes the acute tox profile for bifenthin technical based on the cited studies, except the inhalation study..."

BACKGROUND: According to the copy of the proposed label received by TRB, this product [EPA File Symbol: 70506-RI: Bifenthrin Technical Insecticide/Miticide] has the following ingredient declaration:

Active Ingredient:

Bifenthrin (2-methyl[1,1'-biphenyl]-3-yl) methyl 3-(2-chloro-	-3,3,3-trifluoro-1-
propenyl)-2,2-dimethylcyclopropanecarboxylate*	99.4%
Inert Ingredients:	0.6%

As part of this package, TRB has received the following two acute toxicity studies: acute oral LD50 in rats (MRID 45654404); and acute dermal LD50 in rats (MRID 45654405).

COMMENTS AND RECOMMENDATIONS:

- 1. The two submitted acute toxicity studies (MRIDs 45654404 and 45654405) have been reviewed and have been classified as acceptable.
- 2. While the dermal toxicity study (MRID 45654405) has been classified as acceptable, The report states that in one preliminary range finding study mortality (in 1/4 rats at 500 mg/kg, 1/4 at 1000 mg/kg, and 2/4 at 2000 mg/kg) was observed; this was followed by a "main study" at 700, 1260 and 2268 mg/kg. "As sufficient mortality was not observed in the main study, the dose range finding study was conducted again using the dose levels of 500, 1000 and 2000 mg/kg...and the percent mortality observed was 0, 25 and 25, respectively." This information is considered as 6(a)(2) data [refer to CFR40 §152.125], and a more detailed report (which should include how the test material was applied and differences, if any, between the protocol(s) used in the preliminary studies and the final study) should be submitted to the Agency.
- 3. From the summary listing of the acute toxicity profile of Bifenthrin, it is noted that a primary eye irritation study in MRID 00132522 indicates the existing (FMC) registration for technical bifenthrin is in toxicity category IV by this exposure route. Because there may be subtle physical and/or chemical differences between the two technicals, TRB recommends that, in lieu of an actual eye irritation study for the proposed United Phosphorus Bifenthrin Technical, that it be placed in toxicity category III in terms of eye irritation potential. This is consistent with the proposed labeling for this product (which includes a FIRST AID statement for eye exposure, as well as the precautionary statement: "Causes moderate eye irritation." The remainder of the precautionary labeling (addressing inhalation toxicity, dermal irritation and dermal sensitization potentials) should then be consistent with the existing labeling for FMC technical bifenthrin.

4. Based on the results of the reviewed acute toxicity studies, as well as the considerations indicated above, the following is the acute toxicity profile for EPA File Symbol 70506-RI BIFENTHRIN TECHNICAL INSECTICIDE/MITICIDE:

Acute Oral LD50	Acceptable	Tox. Cat. II (MRID 45654404)
Acute Dermal LD50	Acceptable	Tox. Cat. III (MRID 45654405)
Acute Inhalation LC50	Cited	Tox. Cat. III(?)*
Primary Eye Irritation	Cited	Tox. Cat. III**
Primary Dermal Irritation	Cited	Tox. Cat. IV
Dermal Sensitization	Cited	Negative

^{*}Summary sheet indicates no existing inhalation toxicity studies. Label for this proposed product is consistent with toxicity category III, and this is acceptable if the FMC product is also in toxicity category III by this exposure route.

5. Based on the acute toxicity profile given above and based on the proposed label use directions, the following is the precautionary labeling for this product, as obtained from the Label Review System:

PRODUCT ID #:

070506-00018

PRODUCT NAME: BIFENTHRIN TECHNICAL INSECTICIDE/MITICIDE

PRECAUTIONARY STATEMENTS

SIGNAL WORD: WARNING

Hazards to Humans and Domestic Animals:

May be fatal if swallowed. Harmful if absorbed through skin. Harmful if inhaled. Causes moderate eye irritation. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

^{**}Summary sheet indicates the FMC product is in toxicity category IV by this exposure route. As slight physical and/or chemical differences may impact on eye irritation potential, TRB recommends that, in lieu of a primary eye irritation study on the United Phosphorus Technical Bifenthrin, that it be assigned to toxicity category III by this exposure route. This is consistent with the labeling proposed for this product by United Phosphorus.

First Aid:

If swallowed:

- -Call a polson control center or doctor immediately for treatment advice.
- -Have person sip a glass of water if able to swallow.
- -Do not induce vomiting unless told to by a poison control center or doctor.
- -Do not give anything to an unconscious person.

If on skin:

- -Take off contaminated clothing.
- -Rinse skin immediately with pienty of water for 15-20 minutes.
- -Call a polson control center or doctor for treatment advice.

If inhaled:

- -Move the person to fresh air.
- -If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
- -Call a polson control center or doctor for further treatment advice.

If in eves:

- -Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- -Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- -Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN: Note to PM/CRM/Registrant: The proposed label should contain a "Note to Physician". The following statements are suggested types of information that may be included, if applicable: - technical information on symptomatology; - use of supportive treatments to maintain life functions; - medicine that will counteract the specific physiological effects of the pesticide; - company telephone number to specific medical personnel who can provide specialized medical advice.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-xxx-xxxx for emergency medical treatment information.

DATA REVIEW FOR ACUTE ORAL TOXICITY TESTING (870.1100, formerly §81-1)

Product Manager: 03

MRID No.: 45654404

Reviewer: Byron T. Backus, Ph.D.

CITATION: Tiwari, V.K. Acute Oral Toxicity Study of Bifenthrin Technical in Rats. JRF Study No. 3415. Unpublished study prepared by Department of Toxicology, Jai Research Foundation, Valvada 396108, Gujarat, India. Final Report Date: FEB-9-2002. MRID 45654404.

SUBMITTER & SPONSOR: UNITED PHOSPHORUS INC.

TEST MATERIAL: Bifenthrin Technical; (2-methyl[1,1'-biphenyl]-3-yl)methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate; CAS 82657-04-3; purity 99.2%, a white powder

SPECIES: Rat, Wistar

AGE(at dosing): young adult, 9 weeks

WEIGHT (presumably fasted): Males: 204-270 g; Females: 194-235 g

SOURCE: Breeding facility, Jai Research Foundation

EXECUTIVE SUMMARY: In an acute oral toxicity study (MRID 45654404), fasted (17+ hrs) young adult (9 week old) Wistar rats (5 males and 5 females/dose level) were orally gavaged with Bifenthrin Technical (a white powder containing 99.2% active) in peanut oil at a constant dose volume of 10 mL/kg. Doses in the main study were 0 (vehicle only), 50, 79 and 125 mg/kg.

At 50 mg/kg 0/5M & 2/5F died; at 79 mg/kg 4/5M & 2/5F died; at 125 mg/kg 5/5M & 3/5F died. All deaths were within 24 hours of dosage. Symptoms at all dose levels included tremors and nasal discharge; other observations (at 79 mg/kg and above) included abdominal breathing, nasal irritation and plicerection. At 125 mg/kg symptoms also included tonic-cionic convulsions in all animals. Survivors were generally normal by Day 3. All survivors had weight gains from Day 0 to Day 7 and again from Day 7 to Day 14, with the exception of one 50 mg/kg female who had the same bodyweight on Day 7 and Day 14.

The rats which died showed findings which included mottling or congestion of the liver and mottling or congestion of the lungs. 13/16 rats found dead had pulmonary congestion, and it is reported that this is a common finding in dead animals with no particular pathological significance. Findings in terminally sacrificed animals were categorized as spontaneous/accidental.

Oral LD50 Males = 66.19 (95% C.L. of 54.48 to 77.90) mg/kg Oral LD50 Females = 91.89 (95% C.L. of 26.67 to 316.63) mg/kg Oral LD50 Combined = 74.90 (95% C.L. of 57.29 to 97.92) mg/kg

Bifenthrin technical, a white powder containing 99.2% active ingredient, is in toxicity category il in terms of oral toxicity.

Study Classification: Acceptable

COMPLIANCE: Signed and dated GLP Compliance (p. 3), Quality Assurance (p. 5), and [No] Data Confidentiality (p. 2) statements were provided.

Procedure (Including deviations from 870.1100): Following preliminary range-finding testing, "four groups of rats, each dose group comprising 5 males and 5 females, were randomly selected and three groups were given a single dose of bifenthrin technical at dose levels of 50, 79 and 125 mg/kg... As the test substance is insoluble in water, it was suspended in peanut oil at the required concentrations prior to dosing. The dose solution was stirred to ensure that there were no visible precipitates. Another group was administered peanut oil at a constant dose volume of 10 mL/kg...as control. A dose volume of 10 mL/kg body weight was calculated for each rat. All animals were dosed once by gavage (day 0) using a metal cannula... Animals were deprived of feed for seventeen hours and fifteen minutes prior to dosing and then three hours after dosing."

Results:

December (market)	Number of Deaths/Number Tested					
Dosage (mg/kg)	Males Females Total					
0 (vehicle only)	0/5	0/5	0/10			
50	0/5	2/5	2/10			
79	4/5	2/5	6/10			
125	5/5	3/5	8/10			

Observations: All deaths were within 24 hours of dosage. Symptoms at all dose levels included tremors and nasal discharge; other observations (at 79 mg/kg and above) included abdominal breathing, nasal irritation and piloerection. At 125 mg/kg symptoms also included tonic-clonic convulsions in all animals. Survivors were generally normal by Day 3. All survivors had weight gains from Day 0 to Day 7 and again from Day 7 to Day 14, with the exception of one 50 mg/kg female who had the same bodyweight on Day 7 and Day 14.

Gross Necropsy: The rats which died showed findings which included mottling or congestion of the liver and mottling or congestion of the lungs. 13/16 rats found dead had pulmonary congestion, and it is reported that this is a common finding in dead animals with no particular pathological significance. Findings in terminally sacrificed animals were categorized as spontaneous/accidental.

DATA REVIEW FOR ACUTE DERMAL TOXICITY TESTING (870.1200, formerly §81-2)

Product Manager: 03 MRID No.: 45654405 Reviewer: Byron T. Backus, Ph.D.

CITATION: Tiwan, V.K. Acute Dermal Toxicity Study of Bifenthrin Technical in Rats. JRF Study No. 3416. Unpublished study prepared by Department of Toxicology, Jai Research Foundation,

Valvada 396108, Gujarat, India. Final Report Date: FEB-9-2002. MRID 45654405.

SUBMITTER & SPONSOR: UNITED PHOSPHORUS INC.

TEST MATERIAL: Bifenthrin Technical; (2-methyl[1,1'-biphenyl]-3-yl)methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate; CAS 82657-04-3; purity 99.2%, a white powder

SPECIES: Rat, Wistar

AGE(at dosing): not stated; presumably young adult (consistent with body weight data)

WEIGHT: Males: 229-282 g; Females: 216-259 g SOURCE: Breeding facility, Jai Research Foundation

EXECUTIVE SUMMARY: In an acute dermal toxicity study (MRID 45654405), groups of 5M & 5F young adult Wistar rats were dermally exposed for 24 hrs (occluded exposure) to either 2000 mg/kg Bifenthrin technical (a white powder with 99.2% purity) mixed with an unspecified amount of peanut oil "to give a slurry," or to 0.2 mL of peanut oil alone.

There were no mortalities. 9/10 of the rats exposed to bifenthrin showed symptoms (tremors) on Day 3, and two of these rats (both males) also had tremors and piloerection on Days 4-5. All rats were normal from Day 6 through Day 14. All 5 males had bodyweight gains in the period from Day 0 to Day 7, but all 5 females had weight losses during this period; 5/5 males and 4/5 females had bodyweight gains in the period from Day 7 to Day 14.

Necropsy findings (pinpoint lung hemorrhages in one male; bilateral uterine hydrometra in one female) were considered spontaneous and unrelated to exposure to bifenthrin.

The report states that in one preliminary range finding study mortality (in 1/4 rats at 500 mg/kg, 1/4 at 1000 mg/kg, and 2/4 at 2000 mg/kg) was observed; this was followed by a "main study" at 700, 1260 and 2268 mg/kg. "As sufficient mortality was not observed in the main study, the dose range finding study was conducted again using the dose levels of 500, 1000 and 2000 mg/kg...and the percent mortality observed was 0, 25 and 25, respectively." This information is considered as 6(a)(2) data, and a detailed report should be submitted to the Agency.

Dermai LD50 Males > 2000 mg/kg (0/5 died at this dose level)
Dermai LD50 Females > 2000 mg/kg (0/5 died at this dose level)
Dermai LD50 Combined > 2000 mg/kg (0/10 died at this dose level)

Bifenthrin technical, a white powder containing 99.2% active, is in toxicity category ill in terms of dermal toxicity, based on the dermal LD50 > 2000 mg/kg.

Study Classification: Acceptable

COMPLIANCE: Signed and dated GLP Compliance (p. 3), Quality Assurance (p. 5), and [No] Data Confidentiality (p. 2) statements were provided.

Procedure (including deviations from 870.1200): "A dose range finding study for bifenthrin technical was performed using four (2 male and 2 female) animals per group. The per cent mortality observed were 25, 25 and 50 at the dose levels of 500, 1000 and 2000 mg/kg body weight. Based on above results, main study was conducted at the dose level of 700, 1260 and 2268 mg/kg body weight. As sufficient mortality was not observed at the main study, the dose range finding study was conducted again using the dose levels of 500, 1000 and 2000 mg/kg body weight and the per cent mortality observed was 0, 25 and 25, respectively. Therefore, the study was conducted as a limit study using 2000 mg/kg body weight."

"Depending on the result of the range finding study, two groups of rats, comprising 5 males and 5 females per group, were randomly selected...and one group was given dermal application of bifenthrin technical at the dose level of 2000 mg/kg body weight. As bifenthrin technical was insoluble in water, the measured/calculated quantity of bifenthrin technical was mixed with peanut oil, to give a slurry, for even application on the exposed part of the skin. The other group of ten animals (5 male and 5 female), which served as control, was simultaneously treated with 0.2 mL of peanut oil and maintained in similar experimental conditions. The test substance was held in contact with the skin with a porous gauze dressing (not more than 8 ply) and Medi tape 330 hypo-allergic surgical tape...throughout the 24 hour of exposure period to prevent evaporation of the test substance and to ensure that the animals did not ingest it. At the end of the exposure period, the residual test substance was removed using cotton moistened with distilled water."

Resuits:

B((')	sage (mg/kg) Number of Deaths/Number Tested Males Females Combined				
Dosage (mg/kg)					
o -	0/5	0/5	0/10		
2000	0/5	0/5	0/10		

Observations: None of the rats showed any clinical signs from Day 0 to Day 2. 5/5 males and 4/5 females had tremors on Day 3; all but 2 males had recovered the following day. The 2 males showed tremors and piloerection on Days 4 and 5, but were normal on Day 6. All 5 males gained weight in the period from Day 0 to Day 7, while all 5 females lost weight during this same period. All males continued to gain weight in the period from Day 7 to Day 14, but one female lost weight during this period and 3 others, although gaining some weight, had still lost a few grams from their initial (Day 0) weight.

Gross Necropsy: 2000 mg/kg: 3/5 males and 4/5 females had NAD (No abnormalities detected). One male had pin-point hemorrhages (mild) of the lungs; the other male had biotched kidneys and a few pin-point hemorrhages of the lungs. One female had partial consolidation in the right cranial lobe of the lung.

ACUTE TOX ONE-LINERS

1. DP BARCODE: D285143
2. PC CODE: 128825 Bifenthrin
3. CURRENT DATE: January 8, 2003

4. TEST MATERIAL: EPA File Symbol 70506-RI; Bifenthrin Technical; (2-methyl[1,1'-biphenyl]-3-yl)methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate; CAS

82657-04-3; purity 99.2%, a white powder

Study/Species/Lab Study #/Date	MRID	Results	Tox. Cat.	Core Grade
Acute oral toxicity/rat/ Jai Research Foundation Gujarat Indla/Study No. 3415/FEB-9-2002	45654404	LD ₅₀ (M) = 66.2 (54.5-77.9) mg/kg; LD ₅₀ (F) = 91.9 (26.7-316.6)mg/kg; LD ₅₀ (Combined) = 74.9 (57.3-97.9) mg/kg. Dose levels: 50, 79 & 125 mg/kg of test material in peanut oil at a constant dose volume of 10 mL/kg. Symptoms at all dose levels included tremors and nasal discharge; other observations (at 79 mg/kg and above) included abdominal breathing, nasal irritation and piloerection. At 125 mg/kg symptoms also included tonic-cionic convulsions. Survivors were generally normal by Day 3.	11	A .
Acute Dermal Toxicity/rat/ Jai Research Foundation Gujarat India/Study No. 3416/FEB-9-2002.	45654405	There were no mortalities among 5M & 5F dermaily exposed to 2000 mg/kg. 9/10 rats had tremors on Day 3, and 2 of these (both males) had tremors and piloerection on Days 4-5. All rats were normal Days 0-2, Days 6-15. All 5M had bodyweight gains in the period from Day 0 to Day 7, but all 5F had weight losses; 5/5 males and 4/5 females had bodyweight gains in the period from Day 7 to Day 14. Necropsy findings (pinpoint lung hemorrhages in one male; bilateral uterine hydrometra in one female) were considered spontaneous and unrelated to exposure to bifenthrin. Report states that in a preliminary range finding study 1/4 rats at 500 mg/kg, 1/4 at 1000 mg/kg, and 2/4 at 2000 mg/kg died; followed by a "main study" at 700, 1260 and 2268 mg/kg. "As sufficient mortality was not observed in the main study, the dose range finding study was conducted again using the dose levels of 500, 1000 and 2000 mg/kg and the percent mortality observed was 0, 25 and 25, respectively."		A

Core Grade Key: A =Acceptable, S = Supplementary, U = Unacceptable, V = Self Validated

From recent Draft HED risk assessment For bitenthrin.

ACUTE TOXICITY

Acute Toxicity of Bifenthrin.

Guideline	** **********************************			
No. .81-1	Study Type Acute Oral	MRID #(S). 00132519	Results $LD_{50} = 70.1 \text{ mg/kg } (\sigma^{*})$ $LD_{50} = 53.8 \text{ mg/kg } (\$)$	Toxicity Category II
81-2	Acute Dermal	00132520	$LD_{50} > 2000 \text{ mg/kg}$	111
81-3	Acute Inhalation		no studies	
81-4	Primary Eye Irritation	00132522	non-irritant	IV
81-5	Primary Skin Irritation	00132521	non-irritant	IV
81-6	Dermal Sensitization	00132523	not a sensitizer	



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

DEC 12 2002

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

United Phosphorus, Inc. c/o Ms. Elizabeth A. Brown, Ph.D. ChemReg International, LLC 1990 Old Bridge Road, Suite 201 Lake Ridge, VA 22192-2383

Dear Ms. Brown:

SUBJECT:

Product Chemistry Review

Bifenthrin Technical Insecticide/Miticide

EPA File Symbol: 70506-RI

EPA has completed its review of product chemistry data submitted in support of this application for registration (MRID#456544-01, 456544-02 and 456544-03). A copy of the review is enclosed for your records. The review identifies a number of deficiencies which must be addressed before this product can be registered. Furthermore, until additional product chemistry information is submitted, we cannot make the determination whether the product is substantially similar to FMC's bifenthrin technical (EPA Reg. No. 279-3055). Please refer to the enclosed review for details regarding the product chemistry data deficiencies.

EPA has not yet completed its review of the acute toxicity data submitted/cited to support registration. We will advise you of the results of our review once it is completed.

If you have any questions regarding this action, please contact Susan Stanton of my team at (703) 305-5218.

Sincerely yours,

George T. LaRocca

Product Manager (13)

Insecticide Branch

Registration Division (7505C)

! Staton, for

Enclosure

DP BARCODE: D285142

#14054

CASE: 072204 SUBMISSION: S620915 DATA PACKAGE RECORD

BEAN SHEET

DATE: 08/30/02 Page 1 of 1

* * * CASE/SUBMISSION INFORMATION * * *

CASE TYPE: REGISTRATION ACTION: 166 RESB NEW PRO-OC-MIN CHG

RANKING : 10 POINTS ()

CHEMICALS: 128825 Bifenthrin (ANSI)

99,4000%

ID#: 070506-RI BIFENTHRIN TECHNICAL INSECTICIDE/MITICIDE

COMPANY: 070506 UNITED PHOSPHORUS INC

PRODUCT MANAGER: 03 ARNOLD LAYNE 703-305-6249 ROOM: CM2 212 PM TEAM REVIEWER: SUSAN STANTON 703-305-5218 ROOM: CM2 237

RECEIVED DATE: 08/30/02 DUE OUT DATE: 02/26/03

* * * DATA PACKAGE INFORMATION * * *

DP BARCODE: 285142 EXPEDITE: N DATE SENT: 08/30/02 DATE RET.: / /

CHEMICAL: 128825 Bifenthrin (ANSI)

P TYPE: 001 Submission Related Data Package

CSF: Y LABEL: Y

ASSIGNED TO DATE IN DATE OUT ADMIN DUE DATE: 01/17/03
DIV: RD 8/30/02 // NEGOT DATE: //
BRAN: TRB 9/10/ // PROJ DATE: //

BRAN: TRB 9/10/ SECT: CHEM 9/10/ REVR: Kuthay 12/6/02 12/10/02

CONTR:

* * * DATA REVIEW INSTRUCTIONS * * *

United Phosphorus, Inc. has submitted an application to register a me-too technical bifenthrin product. In support of the application they have submitted Group A product chemistry data (MRID#456544-01), an accelerated storage stability study (MRID#456544-03) and some Group B data (color, physical state and odor; MRID# 456544-02). For other requirements they are using the cite-all method, based on the product's substantial similarity to FMC's registered technical (EPA Reg. No. 279-3055). Please review the submitted data and determine whether they are acceptable. Also, please determine whether the product is substantially similar to FMC's technical and whether they have submitted or cited adequate data to fulfill the product chemistry requirements for a technical product. A copy of the data matrix listing submitted and cited data is included for your review. I have also attached copies of the CSFs and labels for this new product and FMCs technical for your review. you have any questions, let me know.

Thanks, Susan Stanton

* * * DATA PACKAGE EVALUATION * * *

No evaluation is written for this data package

DP BARCODE: D285142

CASE: 072204 DATA PACKAGE RECORD (CONTINUED) DATE: 08/30/02

SUBMISSION: S620915 BEAN SHEET Page 2 of 1

* * * ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION * * *

DP BC BRANCH/SECTION DATE OUT DUE BACK INS CSF LABEL 285143 TRB/TOX 08/30/02 01/17/03 Y Y Y

DATE:

December 10, 2002

SUBJECT:

Product Chemistry Review of Bifenthrin Technical

FROM:

Linda L. Kutney

Product Chemistry Team

Linke Whatery 5/2-11-02 Technical Review Branch/RD (7505C)

TO:

Arnold Layne, Susan Stanton PM 3

Insecticide Branch/RD (7505C)

DP BARCODE:

D285142

EPA REG. NO.:

70506-RI

REGISTRANT:

United Phosphorus, Inc.

USE:

Insecticide

INTRODUCTION:

United Phosphorus, Inc. has submitted product chemistry data to support the registration of "Bifenthrin Technical. Insecticide/Miticide." The chemical name for Bifenthrin is "(2-methyl[1,1'-biphenyl]-3-yl)methyl-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2dimethylcyclopropanecarboxylate." The proposed basic CSF is dated 2/8/02.

This proposed label is for inseciticide/miticide non-food use, including as a termiticide and soil contact nonfumigation treatment, as wood treatment and protection, as outdoor insect control, on ornamental plants, trees, shrubs and woody vines, residential lawns and for indoor insect control., spot or crack and crevice treatment in non-food areas. Use in food or feed areas is prohibited. The product chemistry data has been submitted under MRIDs 456544-01, 456544 -02 and 456544-03.

In their letter of 4/8/02, United Phosphorus has also claimed similarity to FMC's Bifenthrin Technical, Reg. No. 279-3055, containing 94.0% of Bifenthrin ai, and a minimum of 97% cis isomers and a maximum of 3% of trans isomers, as listed on the label accepted 6/21/01. No minimum of trans Bifenthrin isomers was included on the approved label.

BARCODE: <u>D285142</u>; Reg. No. <u>70506-RI</u> PRODUCT: <u>Bifenthrin Tech.Insecticide/Miticide</u>

SUMMARY OF FINDINGS:

- 1. The product chemistry data submitted corresponding to guideline reference 830.1600 (Description of material used to produce the product) satisfy the data requirements of 40CFR§ 158.160.
- 2. The product chemistry data submitted corresponding to guideline reference 830.1620 (Description of production process) satisfy the data requirements for 40CFR§158.162.
- 3. The product cliemistry data submitted corresponding to guideline reference 830,1670 (Discussion on the formation of impurities) satisfy the data requirements for 40CFR§158.167.

BARCODE: <u>D285142</u>; Reg. No. <u>70506-RI</u> PRODUCT: <u>Bifenthrin Tech.Insecticide/Miticide</u> CONCLUSION:

The nominal concentration of bifenthrin in Bifenthrin Technical Insecticide/Miticide does not fall within the upper and lower certified limits claimed for FMC's Bifenthrin Technical. Insufficient physical chemical data were submitted to conclude that the proposed technical was substantially similar to FMC's Bifenthrin Technical, Reg. No. 279-3055, from a physical chemistry standpoint.

TRB concludes that the registration request for Bifenthrin Technical Insecticide/Miticide is not acceptable, from a product chemistry standpoint. Deficiencies are numbered below, grouped by type.

CSF deficiencies include:

- 1. A value must be given for density in block 7, in agreement with the study results.
- 2. A value must be given for pH in block 8, in agreement with the study results.
- 3. The "non-applicable" flash point given in block 9 must be supported by study results.
- 4. The chemical name for bifenthrin must be included in column 10 of the CSF, as required.
- 5. The minimum listed for the cis isomer in column 10 (for the total bifenthrin), 97%, does not agree with the lower certified limit for the cis isomer given in column 14b.
- 6. It should be very clear that the minimum and maximums listed in column 10 for cis and trans isomers of bifenthrin correspond to the fractions of the total bifenthrin.

Subgroup A physical chemical data requirements include:

- 7. product identity and composition (guideline reference 830.1550, 40CFR158.155) The nominal, upper and lower concentrations of bifenthrin in Bifenthrin Technical Insecticide/Miticide listed in the CSF does not agree with the values listed in the study (MRID 456544-01).
- 8. certified limits (guideline reference 830.1750, 40CFR158.175) See comments included under heading, CSF, above. Note that the certified limits given in the study do not agree with those on the CSF. This must be explained and corrected. The product chemistry data submitted corresponding to guideline reference 830.1550 (Product identity & Composition), and 830.1750 (Certified limits) do not satisfy the data requirements of 40CFR§158.155 and 158.175 respectively.

- 9. The product chemistry data submitted corresponding the guideline reference 830.1700 (Preliminary analysis) do not satisfy the data requirements of 40CFR§158.170 because they do not support the nominal and upper and lower certified limits on the CSF.
- 10. Analytical Method (guideline reference 830.1800, 40CFR158.180) The method indicates that cis and trans bifenthrin is separated and quantitated, but the Registrant should give details as to how this is accomplished.
- 11. <u>Samples</u> must be submitted to the Agency laboratory upon registration of the product (guideline 830.1900, 40CFR158.190).

For full registration, United Phosphorus must submit the following <u>Subgroup B</u> physical chemical studies (See 40CFR Section 190):

STUDY:	GUIDELINE
	REFERENCE #:
Stability to normal and elevated temperatures, metals, metal ions	830.6313
Oxidation Reduction: chemical incompatibility	830.6314
Flammability	830.6315
Explodability	830.6316
Storage stability	830.6317
Corrosion Characteristics	830.6320
pH	830.7000
Melting point/range	830.7200
Boiling point/range	830.7220
Density/Relative Density/Bulk Density	830.7300
Dissociation constant in water	830.7370
Partition coefficient (n-oct/water)shake flask method	830.7550
Water Solubility column elution method, shake flask method	830.7840
Solubility in organic solvents	

BARCODE: D285142; Reg. No. 70506-RI PRODUCT: Bifenthrin Tech. Insecticide/Miticide

830.1550. Product Identity:

Common Name: Bifenthrin Technical

Chemical Name: "(2-methyl[1,1'-biphenyl]-3-yl)methyl-3-(2-chloro-3,3,3-trifluoro-1-

propenyl)-2,2-dimethylcyclopropanecarboxylate."

CAS No.: 82657-04-3 for cis isomer, 83322-02-3 for trans isomer

PC Code No.: 128825 for cis and trans mix

Empirical formula: C23 H22 C1 F3 O2

Molecular Weight: 422.9 g/Mole
Structural formula and additional product identity data (from MRID 456544-01)

Tracia Name: Molecular Formula;

Molecular Weight: Structural Formula: Bifentinin Technical. CssHsrCiFsOs 422.9

BARCODE: <u>D285142</u>; Reg. No. <u>70506-RI</u> PRODUCT: <u>Bifenthrin Tech.Insecticide/Miticide</u> REVIEW OF PRODUCT CHEMISTRY, OPPTS 830 SERIES

Table 1: Manufacturing and Impurity Data for United Phosphorus 's Bifenthrin T/TGAI.				
GLN	Requirement	MRID	Status	Details and/or Deficiency
830. 1550	Product identity and composition	CSF 2/8/02 456544- 01	N.	Nominal concentrations and certified limits for the AI & all the impurities provided in the CSF do not agree with the study results in MRID 456544-01.
830. 1600	Description of materials used to produce product	456544- 01	A	The product specification sheets (MSDS) for the starting materials were submitted.
830. 1650	Description of production process	456544- 01	A	The registrant provided detailed information about the synthesis of the technical. Amounts of each starting material and the conditions of the reaction were provided.
830. 1670	Discussion of formation of impurities	456544- 01	A	The registrant provided the required information on the formation of impurities.
830. 1700	Preliminary analysis	456544- 01	A	Method validation indicates that the method is adequate for the determination of the ai. Analysis was conducted on 5 production batches of the ai.
830. 1750	Certified limits	2/8/02 CSF	N	The certified limits given in the CSF are not in agreement with the study.

GLN	Requirement	MRID	Status	Details and/or Deficiency	
830. 1800	Enforcement analytical method	456544- 01	A	"HPLC Method for Determination of Bifenthrin" Compilation Report UPI-Bifentec-A., dated 3/19/02. Bifenthrin test sample is dissolved in HPLC grade acetonitrile, and an aliquot is subjected to reverse phase LC. The cis and trans isomers are combined in a single LC peak and then separate quantitation accomplished using UV detection at 254 nm, using external standard quantitation. The method should explain how cis and trans bifenthrin is separated and quantitated.	
830. 1900	Submission of Samples	456544- 01	A	Samples must be provided prior to registration.	

BARCODE: <u>D285142</u>; Reg. No. <u>70506-RI</u> PRODUCT: <u>Bifenthrin Tech.Insecticide/Miticide</u>

Table 2: Physical and Chemical Properties for the BIFENTHRIN technical.				
GLN	Requirement	MRID	Stat- us ¹	Result or Deficiency
830.6302	Color	456544-02	Α	White
830.6303	Physical state	456544-02	A	Solid Powder
830.6304	Odor	456544-02	Α	None
830.6313	Stability to normal & elevated temperatures, metals, and metal ions.		N	
830.6314	Oxidation Reduction: chemical incompatibility		Ņ	
830.6315	Flammability		N	
830.6316	Explodability		N	
830.6317	Storage stability	456544-03	N	No significant change noted after storage at 54 ± 2 C for 14 days. Stability Testing at 3,6, 9, 12, 18, and 24 months is required for full registration.
830.6319	Miscibility		NA	Not a liquid at 20 C.
830.6320	Corrosion characteristics	456544-03	N	No significant change was noted after storage at 54 ± 2 C for 14 days. Corrosion Characteristics Testing at 3,6, 9, 12, 18, and 24 months is required for full registration.

Table 2: Physical and Chemical Properties for the BIFENTHRIN technical.				
GLN	Requirement	MRID	Stat- us ¹	Result or Deficiency
830.6321	Dielectric Breakdown Voltage		NA	Not Required. Not used around electrical equipment.
830.7000	pH		N	
830.7050	UV/Visible absorption		NA	Not a liquid at 20 C.
830.7100	Viscosity		NA	Not a liquid at 20 C.
830.7200	Melting point/range		N	
830.7220	Boiling point/range		N	
830.7300	Density/relative density/ bulk density		N	
830.7370	Dissociation constant in water		N	
830.7550	Partition coefficient (n-octanol/water) shake flask method		N	
830.7840	Water solubility: column elution method; shake flask method Solubility in organic solvents		И	
830.7950	Vapor pressure		NA	Not a liquid at 20 C

A = Acceptable; N = Not Acceptable (see Deficiency); NA = Not applicable.
For example, "brown" for 830.6302; "155° C" for 830.7200.





BOSTON BRUSSELS CHICAGO

FRANKFURT HAMBURO HONG KONG LONDON LOS ANGELES MILAÑ

MOSCOW

HEW JERSEY

ATTORNEYS AT LAW

WWW.LW.COM

September 12, 2002

NORTHERN VIRGINIA ORANGE COUNTY PARIS SAN DIEGO SAN FRANCISCO SILICON VALLEY SINGAPORE TOKYO WASHINGTON, O.C.

VIA FACSIMILE

Freedom of Information Act Officer Freedom of Information Office (1105) U.S. Environmental Protection Agency 1300 Pennsylvania Ave., N.W. Washington, D.C. 20460

Tel: (202) 566-1667 Fax: (202) 566-2147

*OGC # OECA CPPTS HQ-RIN-03509-02 Que 10/11/02

Re: Freedom of Information Request

Dear Sir or Madam:

Pursuant to the Freedom of Information Act ("FOIA"), 5 U.S.C. Section 552, and the implementing regulations of the Environmental Protection Agency ("EPA"), 40 C.F.R. § 2.100 et seq., I hereby request all correspondence and other documentation related to compliance of United Phosphorous, Inc., with 40 C.F.R. Section 152, subpart E requirements for its application for registration of bifenthrin technical. These documents include, but are not limited to, EPA's April 25, 2002 letter referenced in the attached letter dated June 3, 2002. I also request any documents from EPA's Office of General Counsel, or any other office, regarding EPA's position on the timing of submission of offers to pay compensation and/or certifications with respect to citation of data.

I am not requesting any confidential business information ("CBI"). If any of the documents responsive to this request contain CBI, please supply the documents with CBI redacted.

We agree to any necessary and reasonable charges, which would not exceed \$250.00, for obtaining this information; otherwise, please notify me by telephone at (202) 637-1025.

When the information is available, please call me so I can make arrangements for pick-up or fax it to me at (202) 637-2201. Thank you in advance for your assistance.

Respectfully submitted,

C. Felix Amerasinghe of LATHAM & WATKINS

Attachments

DMMercial

Auran Man 305-7449



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON DID 10460

JUN 3 2002

CIFICE OF PREVENTION PESTICIOES AND TOXIC SUBSTANCES

United Phosphorus, Inc. c/o Ms. Elizabeth A. Brown, Ph.D. ChemReg International, LLC 1990 Old Bridge Road, Suite 201 Lake Ridge, VA 22192-2383

Dear Ms. Brown:

SUBJECT:

Application for Registration

Bifenthrin Technical Insecticide/Miticide

EPA File Symbol: 70506-RI

Your Resubmission Dated May 8, 2002

EPA has reconsidered its position with respect to the subject application and determined that the application is incomplete for the reasons given in the Agency's April 25, 2002 letter:

"An application is considered incomplete if any pertinent item specified in §152.50 has not been submitted. Pursuant to §152.50(f) an applicant must submit materials to demonstrate that he has complied with FIFRA sec. 3(c)(1)(D) and subpart E of part 152 (Procedures to Ensure Protection of Data Submitters' Rights). Therefore, you must submit a completed Certification with Respect to Citation of Data (EPA Form 8570-34) indicating the Method of Data Support you are using. You must also submit a list of companies sent offers of compensation for data you are citing in support of this application."

We reached our decision after consultation with anomeys in the Office of General Council and the Registration Division's senior management team. It was agreed that applications which do not comply with the data compensation regulations at the time of submission will be considered incomplete and that we will not spend resources reviewing such applications until materials to complete the application have been submitted. We recognize that you may have been allowed in the past to submit these materials later in the review process. However, we do not believe that this practice is supported by the regulations. The regulation which you cite as allowing submission at a later point (40 CFR §152.84) has been interpreted to mean that the Agency would not reject an application outright if it is missing information on the data compensation forms. The regulation does not envision that an applicant be required to comply with subpart E only after the application has been determined to be acceptable for registration. Such a determination cannot be made until the data compensation requirements have been met.

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Your May 8, 2002 letter asked as to confirm that the subject application has been determined to be acceptable. It has to to We have not begun to review the data, data matrix, export draft label which you submitted in support of registration and will not begin review of these materials until you submit the information requested above.

If you have any questions regarding this action, please contact Susan Stanton of my team at (703) 305-5218.

Sincerely yours,

George T. LaRocca

Product Manager (13)

Insecticide Branch

Registration Division (7505C)





1990 OLD BRIDGE ROAD, SUITE 201 LAKE RIDGE, VIRGINIA 22192-2383 A. Lalorer 5620 915



DIRECT: 703-492-7905

Main: 703-492-0445 Fax: 703-492-0668 E-Mail:

brown@chemreg.com

WEB SITES: www.chemreg.com

www.pcsticide.net

ELIZABETH A. BROWN, Ph.D.

August 29, 2002

Document Processing Desk
U.S. Environmental Protection Agency (7505C)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202-4501

Attn: George LaRocca (PM 13)

Re:

Application for Registration of Bifentrhin Technical Insecticide/Miticide,

United Phosphorus, Inc. EPA File Symbol 70506-RI Agency Letters of April 25, 2002 and August 14, 2002

Dear George:

On behalf of our client, United Phosphorus Inc., enclosed please find EPA Form 8570-34, Certification with Respect to Citation of Data. United Phosphorus has made the appropriate offers to pay compensation.

This form is being submitted at this time in order to avoid any further delays in the Agency's review of this application (filed April 11, 2002) while the continuing issues associated with the revised interpretation of the timing of this certification in relation to Agency review of applications for registration is still being resolved. While we were reassured in the Agency letter of August 14, 2002, that the above application was not being treated as withdrawn pending resolution of the issues, there has been and will be no progress in the Agency's review of the application pending such resolution or submission of the appropriate certification. United Phosphorus will suffer economic hardship if there are significant delays in resolving the issues.

CONSULTANTS TO SUCCESS"

Over One Hundred and Fifty Years of Combined Experience Assisting Chemical, Pesticide, Bio-Chemical and Life Science Companies on a Wide Range of Issues, Including Regulatory Strategies, Registration, Data Support and Compensation, Quality Assurance, Study Design and Scientific Matters.



Letter to G. LaRocca, US EPA, August 29, 2002, page 2

We still believe that as expressly permitted under 40 CFR 152.84 and EPA's Federal Register notice regarding that regulation (40 Fed. Reg. 30884, Aug 1, 1984), United Phosphorus is allowed to submit a completed Certification with Respect to Citation of Data form to your office, and send the necessary data compensation offers to companies listed on the data matrix, at any time before registration is approved. We believe that 40 FR 30884 is correct in identifying that the Agency will not delay the review of the application pending receipt of these statements, but will not approve the application until they are received and determined to be in compliance.

With this submission, we request that the Agency begin review of application for registration submitted on April 11, 2002 by United Phosphorus, Inc. for Bifenthrin Technical Insecticide/Miticide (EPA File Symbol 70506-RI). It is our understanding that the appropriate discussions should and will continue regarding the issues of the timing of submission of such certifications for future applications.

Please let me know if you have any questions.

Regards,

Elizabeth Anne Brown

cc: United Phosphorus, Inc.

Heijabech ann Brown

Telisport Putsavage, Esq., Wright & Sielaty, P.C.

	Please read instructions on reverse before completing form			2070-0060, Approval expires 5-3 t-98		
١	United Sta	tes ,	Registration	OPP Identifier Number		
	SEPA Environmental Prot	ection Agency	Amendment			
	Washington, D	X Other				
Application for Pesticide - Section I						
	Company/Product Number 70506-RI	2. EPA Pro- George LaR		Proposed Classification		
ľ	Company/Product (Name) Bitentheln Technical Insecticide/Miticide	PM #		None Restricted		
İ	5. Name and Address of Applicant (Include ZIP Code)	6. Expedite	d Review. In accordance v			
	United Phosphorus, Inc. 423 Riverview Plaza	(b)(i), my product is similar or identical in composition and labeling to:				
	Trenton, NJ 08611	EPA Reg No	·	· · · · · · · · · · · · · · · · · · ·		
	Check if this is a new address	Product Nar	19	· · · · · · · · · · · · · · · · · · ·		
Section - II						
t	Amendment - Explain below		printed labels in response t	0		
			Acency letter dated			
Resubmission in response to Agency letter dated "Me Too" Application						
	Notification - Explain below					
	Explanation: Use additional page(s) if necessary. (For Secti	on t and Section II.)				
Submission of Form 8750-34						
Section III						
ł						
	t. Material This Product Will be Packaged in: Child-Resistant Packaging Unit Packaging	Water Soluble Pa	ckeging 2	. Type of Container		
	Yes	Yes		Metal Plastic		
ĺ	No No	No		Glass		
	**Certification must: If Yes" No. be submitted Unit Packeging wgt. cont	per il "Yes" . ainer Package wgt	No. per	Paper Other (Specify)		
		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				
	3. Location of Net Contents information 4. S Label Container	ilze(s) Ratail Container	On L	n of label directions abel		
	6. Manner in Which Label is Affixed to Product	Lithograph	Other	abel accompanying product		
Paper glued						
Section IV						
1. Contact Person (Complete items directly below for identification of individual to be contacted, if necessary, to process this ap						
Name Title Telephone Elizabeth Anne Brown ChemReg International, LLC 703-492-79 Authorized egent				No. (Include Area Code) 905		
Certification 6. Date App						
I certify that the statements I have made on this form and all attachments therete are true, accorate and con I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment both under applicable law				Received		
	2. Signature	3. Title		(Stamped)		
	Thizarier are Brown	ChemReg international, L Authorized Agent	LG			
	4. Typed Name	5. Date		_		
Elizabeth Anne Brown August 29, 2002						
-	EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete. White-EPA File Copy (Original) Yellow - Applicant C					



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M STREET, S.W. WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 1.25 hours per response registration and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing necessary forms. Send comments regarding burden estimate or any other aspect of this collection of information, including suggestions for reduburden to: Director, OPPE Information Management Otvision (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, I. 20460. Do not send the completed form to this eddress. Certification with Respect to Citation of Data							
						Applicant's/Registrant's Name, Address, and Telephone Number United Phosphorus, Inc. 423 Riverview Plaza Trenton, NJ 08811 609-392-8200	EPA Registration Number/Flie Symbol 70506-RI
Active ingredient(s) and/or representative test compound(s) bifenthrin	Date August 29, 2002						
General Use Pattern(s) (list all those claimed for this product using 40 Terrestrial Non-Food, Domestic Outdoor, Indoor	Product Name Blienthrin Technical Insecticide/Miticide						
NOTE: If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not needs submit this form. You must submit the Formulators Exemption Statement (EPA Form 8570-27)							
1 am responding to a Oata-Call-In Notice, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).							
SECTION 1: METHOD OF OA	TA SUPPORT (Che	ck one method only)					
I am using the cite-all method of support, and have included very this form a list of companies sent offers of compensation (the Matrix form should be used for this purpose)							
SECTION II: GENERAL OFFER TO PAY							
(Required if using the cite-all method, or when using the cite-all option under the selective method to satisfy one or more data requirements) X I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA							
SECTION III: CERTIFICATION							
I certify that this epplication for registration, this form for reregistration or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-In response. In addition, if the cite-all option or cite-ell option under the selective method is indicated in Section 1, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the data of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses.							
I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original date submitter or that I have obtained the written permission of the original date submitted to cite that study.							
I certify that for each study cited in support of this registration or reregistration that is not en exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the compeny that submitted the study and have offered (i) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount end terms of compensation, if any, to be paid for the use of the study. I certify that in all instances where an effer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) end/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fall to produce such evidence to the Agency upon request, I understand that the Agency mey initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA. I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that ony knowlingly fatse or misleading statement may be punishable by fine or imprisonment of both under applicable law.							
					Signature Ann Michigan	Date August 29, 2002	Typsd or Printed Neme and Title Ann M. Tillman Technical Director
					Class M. Viller		

EPA Form 8570-34 (9-97) Electronic and Paper versions ovailable. Submit only Paper version.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

AUG 1 4 2002

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

United Phosphorus, Inc. c/o Ms. Elizabeth A. Brown, Ph.D. ChemReg International, LLC 1990 Old Bridge Road, Suite 201 Lake Ridge, VA 22192-2383

Dear Ms. Brown:

SUBJECT:

Application for Registration

Bifenthrin Technical Insecticide/Miticide

EPA File Symbol: 70506-RI

In EPA's April 25, 2002 letter to you regarding the subject application, the Agency indicated that the application would be considered administratively withdrawn if the listed deficiencies were not corrected within 75 days. On June 3, 2002, in response to your submission of May 8, 2002, the Agency reiterated that it would not further review the above referenced application until the identified deficiencies had been corrected, but EPA did not at that time indicate that a new 75-day "clock" would commence following the June 3rd letter.

The Agency is in receipt of a June 27, 2002 letter on your behalf from Telisport
Putsavage, Esq. with regard to those deficiencies. It is my understanding that Mr. Putsavage has
also spoken with EPA General Counsel staff requesting that UPI's application not be treated as
withdrawn pending the resolution of the concerns outlined in the June 27 letter and by other
parties regarding EPA review of incomplete applications. By this letter, I wish to confirm that
EPA will not treat the referenced application as withdrawn pending resolution of these matters.

If you have any questions regarding this action, please contact Susan Stanton of my team at (703) 305-5218.

Sincerely yours,

George T. LaRocca

Product Manager (13)

Insecticide Branch

Registration Division (7505C)

July 26, 2002

Patricia A. Roberts, Esq.
Associate General Counsel for Pesticides and Toxics
U.S. Environmental Protection Agency
Office of General Counsel
1200 Pennsylvania Avenue, NW
Washington, DC 20460

Re: Offers to Pay for Follow-on Registrants

Dear Ms. Roberts:

On behalf of the Chemical Producers and Distributors Association (CPDA), I am writing to you concerning EPA's long-standing policy of allowing "me-too" or generic registrants to submit a Certification with Respect to Citation of Data (EPA Form 8570-34) "at any later time prior to EPA's approval of the application." 40 CFR §152.84

By way of background, CPDA is a voluntary, non-profit organization of about 90 companies engaged in the formulation, manufacturer, distribution, and sale of some \$6 billion worth of generic products used on food, feed, and fiber crops and in the care of lawns, gardens and turf. Many of our members are involved in the development and sale of adjuvants and inerts used to increase the efficacy of crop protection formulations as well as a variety of copper-based pesticide products. As such, EPA rules, regulations, and guidelines affect our member companies significantly.

For the past eighteen years and until very recently, Agency practice has been clear, and interpretation of the applicable regulations has been consistent.

The Agency promulgated the final rule entitled Procedures to Ensure Protection of Data Submitters' Rights, 40 CFR §152.80 et seq., on August 1, 1984. See 49 Fed. Reg. 30,884. That rule took effect on April 25, 1985. See 50 Fed. Reg. 16234.

Section 40 CFR §152.84 states:

All information required by this subpart should be submitted with the application, but may be submitted at any later time prior to EPA's approval of the application. The Agency will not approve any application until it determines either that the application is not subject to these requirements or that all required materials have been submitted and are acceptable. (emphasis added)

In addition, the Preamble to the August 1, 1984 publication entitled Agency Review to Determine Compliance clearly discusses in Section VII the Agency's interpretation of its policy, and specifically clarifies both the timing of an applicant's

registration and the timing of the submission of a Certification with Respect to Citation of Data.

The Preamble unequivocally states:

Under FIFRA section 3(c)(5)(B), the Agency must review applications to determine whether the materials required to be submitted, including those that are required by this Subpart E, comply with the requirements of the Act. This part of the review need not take place before the Agency begins to review the application for compliance with other statutory requirements, but must occur before the registration is approved. EPA recognizes that the correspondence requirements of this subpart may take some time, and that an applicant may not wish to await responses in all cases before filing his application. A notable example is data gap certifications: if a data gap is suspected, the applicant can not claim that the gap exists until he has waited 60 days after corresponding with data submitters. EPA sees no reason why correspondence times and Agency review times may not run concurrently. Section 152.84 therefore provides that applicants may submit materials required by this subpart at any time before registration is granted. The Agency will not delay the review of other information pertinent to the application pending receipt of lists and certification statements, but will not approve the registration until they are received.

Applicants should be aware, however, that if deficiencies are found in materials submitted late in the Agency's review, the registration could be delayed while the applicant corrects the problem. If the Agency completes its review of the application, but has not received the applicant's submissions under this rule, the Agency will send the applicant a rejection letter, which will include a 75-day response time, after which the application will be treated as though it had been withdrawn. A new application will be required if the applicant wants to pursue registration at some later date. 49 Fed. Reg. 30884, at 30897. (emphasis added)

Despite the clearly-worded Preamble and EPA's own regulations, it appears that the Agency is reconsidering its policy of the last eighteen years. We at CPDA strongly urge the Agency to retain its long-standing interpretation of its regulation. The implications of a potential policy shift are enormous.

First, rather than expediting the registration process and using fewer Agency resources, the policy change would slow down the registration process, encourage delays and additional review, delay entry of generic products to the marketplace and decrease competition. Such a shift would result in severe, direct negative economic impacts on farmers, ranchers, consumers, and pesticide consumers.

Second, by requiring "me-too" registrants to make data compensation offers to pay prior to processing of pesticide applications, the "extra" eighty-to-ninety days will

give the original data submitter additional time to file petitions to deny such registrations and provide more lead time to file a petition to cancel once EPA has approved the products. The proposed policy change will create an incentive for frivolous petitions to deny, designed to stall the process. In the meantime, Agency staff time will be diverted to process the petitions.

Third, rather than saving EPA resources, more staff time and resources will be required while the approval process for "me-too" or generic products will be slowed down.

Fourth, if EPA insists on this new interpretation of Section 40 CFR §152.84, the Agency will experience an onslaught of petitions to cancel registrations previously granted under the "old" interpretation of the regulations. These challenges to existing regulations could be based upon untimely offers to pay. These appeals would also consume more EPA time and resources.

Fifth, the language in the regulation—"at any later time" is unambiguous. If one argues that the offer to pay must be submitted with the application, it would completely undermine the clear language and intent of the regulation.

If the Agency is considering a change to the language of 40 CFR § 152.84, the Agency should comply with the Federal Administrative Procedures Act (5 U.S.C. §551) by giving public notice and seeking public comment. All affected parties should have an opportunity to review and comment on a proposed change to the regulation.

We at CPDA urge the Agency to retain its long-standing interpretation of 40 CFR §152.84, and dismiss other EPA efforts to undermine and alter the clear intent of the regulations.

Moreover, we at CPDA strongly support the letter from Telisport W. Putsavage of Wright & Sielaty, P.C., to you dated June 27, 2002 concerning this same matter.

As this issue affects hundreds of generic registrants, we request a meeting to discuss this important issue.

Very truly yours,

Warren E. Stickle, PhD. President

ce: Marcia Mulkey
Jim Jones
Debbie Edwards
George LaRocca

Michelle Knorr

Counselors at Law 1990 Old Bridge Road, Suite 202 Lake Ridge, Virginia 22192-2383

TELISPORT W. PUTSAVAGE DIRECT: 703-492-0738 E-MAIL: putsavage@chemlaw.com

703-492-9966

PHONE: 703-492-0055
FAX: 703-492-0066
WEB: www.chemlaw.com

FAX MESSAGE

DATE:

July 23, 2002

TO:

George Larocca

FAX:

703-605-1225

PHONE:

703-305-6100

PAGES:

8 (Including Cover)

MESSAGE:

THIS WILL BE THE ONLY FORM OF DELIVERY OF THIS DOCUMENT

Counselors at Law

1990 OLD BRIDGE ROAD LAKE RIDGE, VIRGINIA 22192-3026

> 703.492.0738 FACSIMILE 703.492.0066 putsavage@chemlav.com

TELISPORT W. PUTSAVAGE

ADMITTED IN NEW YORK AND MARTLAND NOT ADMITTED IN VIRGINIA

Also at One Steuben Place, Suite 5 Albany, New York 12207

July 23, 2002

By Facsimile and Overnight Mail

Patricia A. Roberts, Esq. Associate General Counsel for Pesticides and Toxics Office of General Counsel U.S. Environmental Protection Agency 1200 Pennsylvania Avenue, NW Washington, DC 20460

Application for Registration of Bifenthrin Technical Insecticide/Miticide United Phosphorus, Inc., EPA File Symbol 70506-RI

Dear Ms. Roberts:

I write to you in further regard to the timing of offers to pay data compensation that I raised in my letter to you of June 27, 2002. That letter addressed the issue raised in a letter of June 3, 2002 from Mr. George LaRocca, Product Manager 13 in the Insecticide Branch of the Registration Division in the Office of Pesticide Products, to Dr. Blizabeth Brown of ChemReg International as agent for United Phosphorous, Inc. ("UPI"). I had requested that the Agency rescind the notice of June 3, 2002 from Mr. LaRocca and continue to process the application in question, or in the absence of a rescission, that you salvise me in writing of that fact and whether such refusal is final agency action on this matter. To date I have received no response to my letter or my telephone follow-up,

I suggest that if the Agency requires further time to review its position on this subject that it nonetheless proceed to process the referenced application for registration. Since the policy in question at the least has not been uniformly applied, and given the widespread lack of industry awareness of the policy, it would seem equitable that the policy be applied to new applications following an announcement to regulated community of the Agency's position. Under this approach, the application in question could continue to be processed.

> A Professional Corporation with Offices Near Washington, D.C., and in Albany, New York

Patricia A. Roberts, Esq July 23, 2002 Page 2 of 2

If we are unable to be assured that our client's rights are being protected in the current circumstances, our client will be forced to consider what avenues of legal recourse are available. It would be an unfortunate waste of the resources of both our client and the Agency if we were forced to pursue other options simply to preserve the status quo in the absence of a response from the Agency.

Very truly yours,

Telisport W. Putsavage

cc: Ms. Marcia Mulkey, Director, Office of Pesticide Products
Ms. Debbie Edwards, Acting Director, Registration Division
Ms. Deborah McCall, Insecticide Branch, Registration Division
Mr. George LaRocca, Product Manager, Insecticide Branch
Michelle Knorr, Esq., Pesticides and Toxic Substances Law Office
Mr. Jeffrey S. Pritchard, United Phosphorus Inc.

Wright&Si

Counselors at Law 1990 OLD BRIDGE ROAD LAKE RIDGE, VIRGINIA 22192-3026

> 703.492.0738 FACSIMILE 703.492.0066 putsavage@chemlaw.com

TELISPORT W. PUTSAVAGE

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703-492-0055

Also at One Steuben Place, Suite 5 Albany, New York 12207

PAGE

June 27, 2002

By Facsimile and Overnight Mail Patricia A. Roberts, Esq. Associate General Counsel for Pesticides and Toxics U.S. Environmental Protection Agency Office of General Counsel 1200 Pennsylvania Avenue, NW Washington, DC 20460

RE: Application for Registration of Bifentrhin Technical Insecticide/Miticide, United Phosphorus, Inc., EPA File Symbol 70506-RI

Dear Ms. Roberts:

I write to you in response to a letter of June 3, 2002 from Mr. George LaRocca, Product Manager 13 in the Insecticide Branch of the Registration Division in the Office of Pesticide Products, to Dr. Elizabeth Brown of ChemReg International as agent for United Phosphorous, Inc. ("UPI"), a copy of which is attached. I have also discussed this matter with Ms. Michelle Knorr of your office.

In his June 3, 2002 letter Mr. LaRocca states that the application referenced above is incomplete and will not be processed because a Certification with Respect to Citation of Data (EPA Form 8570-34) was not included with the application. However, in submitting this application on April 8, 2002, Dr. Brown had requested that she be notified upon completion of the review of application, at which time the Certification would be submitted. This practice, which Mr. LaRocca states that he is now refusing to follow, accords with past Agency practice and the applicable regulations.

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Wright & Sielaty, P.C.

Patricia A. Roberts, Esq June 27, 2002 Page 2 of 5

Mr. LaRocca states that upon advice of the Office of General Counsel and senior management in the Office of Pesticide Programs:

The regulation which you cite as allowing submission at a later point (40 CFR §152.84) has been interpreted to mean that the Agency would not reject an application outright if it is missing information on the data compensation forms. The regulation does not envision that an applicant comply with subpart E [40 CFR §152.80 et seq.] only after the application has been determined to be acceptable for registration. Such a determination cannot be made until the data compensation requirements have been met. (emphasis in the original)

This position represents a major change in the Agency's approach and interpretation of regulations applicable to the processing of registration applications citing the data of other registrants. We believe that this change has been implemented in violation of the Federal Administrative Procedure Act, 5 U.S.C. §551 et seq., in that it represents a change to an existing rule that was made without benefit of public notice and comment.

The Agency promulgated the final rule entitled Procedures to Ensure Protection of Data Submitters' Rights, 40 CFR §152.80 et seq., on August 1, 1984. See 49 Fed. Register 30,884. That rule took effect on April 25, 1985. See 50 Fed. Reg. 16234.

Section 40 C.F.R. §152.84 states:

All information required by this subpart should be submitted with the application, but may be submitted at any later time prior to EPA's approval of the application. The Agency will not approve any application until it determines either that the application is not subject to these requirements or that all required materials have been submitted and are acceptable. (emphasis added).

Patricia A. Roberts, Esq June 27, 2002 Page 3 of 5

In our discussion of this matter, Ms. Knorr argued that the Agency is free to interpret the phrase "at any later time prior to EPA's approval of the application" to mean at the time the application is filed, and that despite our experience to the contrary, has consistently done so. This position directly contradicts both the express text of 40 C.F.R. §152.84 and the Agency's historic interpretation of the rule.

To argue that the phrase "at any later time" can be applied to mean that the certification must accompany the application renders the permissive phrase "should be submitted with the application" meaningless. This position not only defies standard regulatory interpretation principles, but expressly contravenes the position taken by the Agency in promulgating the rule in question. In Section VII of the Preamble of the August 1, 1984 publication, entitled Agency Review to Determine Compliance, the Agency spelled out its approach to the timing of an applicant's registration application in relation to the submission of a Certification with Respect to Citation of Data. The Preamble states:

Under FIFRA section 3(c)(5)(B), the Agency must review applications to determine whether the materials required to be submitted, including those that are required by this Subpart B, comply with the requirements of the Act. This part of the review need not take place before the Agency begins to review the application for compliance with other statutory requirements. but must occur before the registration is approved. EPA recognizes that the correspondence requirements of this subpart may take some time, and that an applicant may not wish to await responses in all cases before filing his application. A notable example is data gap certifications: if a data gap is suspected, the applicant can not claim that the gap exists until he has waited 60 days after corresponding with data submitters. EPA sees no reason why correspondence times and Agency review times may not run concurrently. Section 152.84 therefore provides that applicants may submit materials required by this subpart at any time before registration is granted. The Agency will not delay the review of other information pertinent to the application pending receipt of lists and certification statements, but will not approve the registration until they are received.

Patricia A. Roberts, Esq June 27, 2002 Page 4 of 5

Applicants should be aware, however, that if deficiencies are found in materials submitted late in the Agency's review, the registration could be delayed while the applicant corrects the problem. If the agency completes its review of the application, but has not received the applicant's submissions under this rule, the Agency will send the applicant a rejection letter, which will include a 75-day response time, after which the application will be treated as though it had been withdrawn. A new application will be required if the applicant wants to pursue registration at some later date. 49 Fed. Register 30884, at 30897. (emphasis added)

Given the express term of the rule and EPA's formally-expressed interpretation of it, the implementation of the contrary position expressed by Mr. LaRocca and Ms. Knorr would require promulgation of an amendment of the rule pursuant to the procedures of the Administrative Procedure Act.

The Agency's position is not only in contravention of the rule but ill-advised on a policy basis. By requiring data-citers to make offers to pay prior to the processing of the application, the Agency will invite numerous petitions to cancel while such applications are being processed, thereby burdening both the Agency and applicants with additional delays in processing applications. In addition, if the Agency insists upon pursuing its new interpretation, counsel for several data submitters have already informed us that they would pursue challenges to existing registrations for which offers to pay were made after the Agency had completed applications reviews. These attacks would be premised upon arguments that the Agency granted registrations without complete applications and based upon untimely offers to pay.

I request that the Agency rescind the notice of June 3, 2002 from Mr. LaRocca and continue to process the application in question. Upon completion of the review, UPI will provide the necessary certification confirming that an offer to pay the data submitter(s) has been made.

Wright & Sielaty, P.C.

Patricia A. Roberts, Esq. June 27, 2002 Page 5 of 5

If the Agency refuses to rescind the June 3rd notice, please immediately advise me in writing of that fact and whether such refusal is final agency action on this matter. In such circumstances, UPI reserves the right to seek an injunction in federal court to compel EPA to comply with the procedural requirements set forth in the 1984 Federal Register.

Very truly yours,

Telisport W. Putsavage

port W. Putsava

Ms. Marcia Mulkey, Director, Office of Pesticide Products Ms. Debbie Edwards, Acting Director, Registration Division Ms. Deborah McCall, Insecticide Branch, Registration Division Mr. George LaRocca, Product Manager, Insecticide Branch

Michelle Knorr, Esq., Pesticides and Toxic Substances Law Office

Jeffrey S. Pritchard, United Phosphorus Inc.

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COUNSELORS AT LAW 1990 OLD BRIDGE ROAD LAKE RIDGE, VIRGINIA 22192-3026

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TELISPORT W. PUTSAVAGE

ADMITTED IN NEW YORK AND MARYLAND NOT ADMITTED IN VIRGINIA Also at One Steuben Place, Suite 5 Albany, New York 12207

June 27, 2002

By Facsimile and Overnight Mail
Patricia A. Roberts, Esq.
Associate General Counsel for Pesticides and Toxics
U.S. Environmental Protection Agency
Office of General Counsel
1200 Pennsylvania Avenue, NW
Washington, DC 20460

RE:

Application for Registration of Bifentrhin Technical Insecticide/Miticide, United Phosphorus, Inc., EPA File Symbol 70506-RI

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Patricia A. Roberts, Esq June 27, 2002 Page 2 of 5

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This position represents a major change in the Agency's approach and interpretation of regulations applicable to the processing of registration applications citing the data of other registrants. We believe that this change has been implemented in violation of the Federal Administrative Procedure Act, 5 U.S.C. §551 et seq., in that it represents a change to an existing rule that was made without benefit of public notice and comment.

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Patricia A. Roberts, Esq June 27, 2002 Page 3 of 5

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Patricia A. Roberts, Esq June 27, 2002 Page 4 of 5

Applicants should be aware, however, that if deficiencies are found in materials submitted late in the Agency's review, the registration could be delayed while the applicant corrects the problem. If the agency completes its review of the application, but has not received the applicant's submissions under this rule, the Agency will send the applicant a rejection letter, which will include a 75-day response time, after which the application will be treated as though it had been withdrawn. A new application will be required if the applicant wants to pursue registration at some later date. 49 Fed. Register 30884, at 30897. (emphasis added)

Given the express term of the rule and EPA's formally-expressed interpretation of it, the implementation of the contrary position expressed by Mr. LaRocca and Ms. Knorr would require promulgation of an amendment of the rule pursuant to the procedures of the Administrative Procedure Act.

The Agency's position is not only in contravention of the rule but ill-advised on a policy basis. By requiring data-citers to make offers to pay prior to the processing of the application, the Agency will invite numerous petitions to cancel while such applications are being processed, thereby burdening both the Agency and applicants with additional delays in processing applications. In addition, if the Agency insists upon pursuing its new interpretation, counsel for several data submitters have already informed us that they would pursue challenges to existing registrations for which offers to pay were made after the Agency had completed applications reviews. These attacks would be premised upon arguments that the Agency granted registrations without complete applications and based upon untimely offers to pay.

I request that the Agency rescind the notice of June 3, 2002 from Mr. LaRocca and continue to process the application in question. Upon completion of the review, UPI will provide the necessary certification confirming that an offer to pay the data submitter(s) has been made.

Patricia A. Roberts, Esq June 27, 2002 Page 5 of 5

If the Agency refuses to rescind the June 3rd notice, please immediately advise me in writing of that fact and whether such refusal is final agency action on this matter. In such circumstances, UPI reserves the right to seek an injunction in federal court to compel EPA to comply with the procedural requirements set forth in the 1984 Federal Register.

Very truly yours,

Telisport W. Putsavage

port W. Putsavoy

cc: Ms. Marcia Mulkey, Director, Office of Pesticide Products
Ms. Debbie Edwards, Acting Director, Registration Division
Ms. Deborah McCall, Insecticide Branch, Registration Division
Mr. George LaRocca, Product Manager, Insecticide Branch
Michelle Knorr, Esq., Pesticides and Toxic Substances Law Office



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

JUN 3 2002

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

United Phosphorus, Inc. c/o Ms. Elizabeth A. Brown, Ph.D. ChemReg International, LLC 1990 Old Bridge Road, Suite 201 Lake Ridge, VA 22192-2383

Dear Ms. Brown:

SUBJECT: Application for Registration

Bifenthrin Technical Insecticide/Miticide

EPA File Symbol: 70506-RI

Your Resubmission Dated May 8, 2002

EPA has reconsidered its position with respect to the subject application and determined that the application is incomplete for the reasons given in the Agency's April 25, 2002 letter:

"An application is considered incomplete if any pertinent item specified in §152.50 has not been submitted. Pursuant to §152.50(f) an applicant must submit materials to demonstrate that he has complied with FIFRA sec. 3(c)(1)(D) and subpart E of part 152 (Procedures to Ensure Protection of Data Submitters' Rights). Therefore, you must submit a completed Certification with Respect to Citation of Data (EPA Form 8570-34) indicating the Method of Data Support you are using. You must also submit a list of companies sent offers of compensation for data you are citing in support of this application."

We reached our decision after consultation with attorneys in the Office of General Council and the Registration Division's senior management team. It was agreed that applications which do not comply with the data compensation regulations at the time of submission will be considered incomplete and that we will not spend resources reviewing such applications until materials to complete the application have been submitted. We recognize that you may have been allowed in the past to submit these materials later in the review process. However, we do not believe that this practice is supported by the regulations. The regulation which you cite as allowing submission at a later point (40 CFR §152.84) has been interpreted to mean that the Agency would not reject an application outright if it is missing information on the data compensation forms. The regulation does not envision that an applicant be required to comply with subpart E only after the application has been determined to be acceptable for registration. Such a determination cannot be made until the data compensation requirements have been met.

Your May 8, 2002 letter asked us to confirm that the subject application has been determined to be acceptable. It has not. We have not begun to review the data, data matrix, CSF or draft label which you submitted in support of registration and will not begin review of these materials until you submit the information requested above.

If you have any questions regarding this action, please contact Susan Stanton of my team at (703) 305-5218.

Sincerely yours,

George T. LaRocca Product Manager (13)

Insecticide Branch

Registration Division (7505C)





1990 OLD BRIDGE ROAD, SUITE 201 LAKE RIDGE, VIRGINIA 22192-2383

DIRECT: 703-492-7905

Main: 703-492-0445

Fax: 703-492-0668

E-Mail:

brown@chemreg.com

Web Sites: www.chemreg.com

www.pesticide.net

ELIZABETH A. BROWN, PH.D.

May 8, 2002

Document Processing Desk
U.S. Environmental Protection Agency (7505C)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202-4501

Attn: George LaRocca (PM 13)

Application for Registration of Bifentrhin Technical Insecticide/Miticide,

United Phosphorus, Inc. EPA File Symbol 70506-RI

Agency Letter of April 25, 2002

Dear George:

Re:

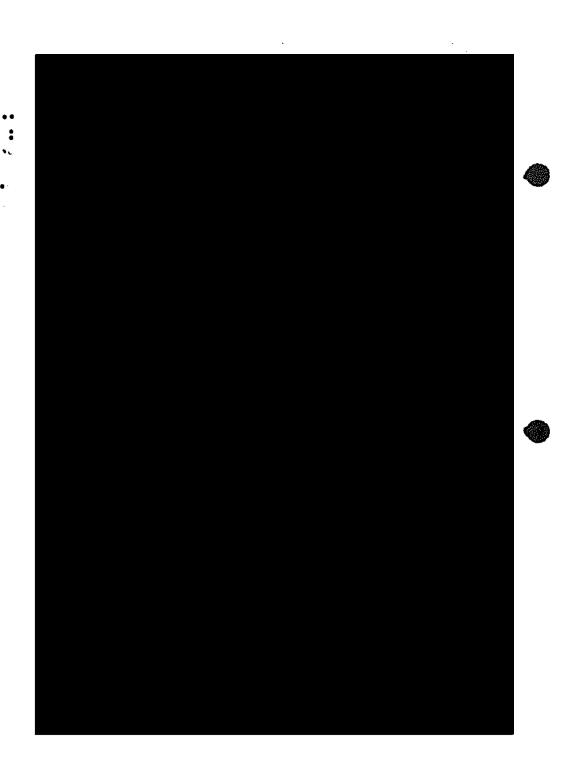
In your letter of April 25, 2002 (copy enclosed), you stated that the Agency will not continue processing the application for registration of the above product if EPA Form 8570-34 and associated materials were not submitted within 75 days of the date of receipt of your letter. As clearly stated in the submission materials accompanying the application and as expressly permitted under 40 CFR 152.84 and EPA's Federal Register notice regarding that regulation (40 Fed. Reg. 30884, Aug 1, 1984), United Phosphorus is allowed to and will submit a completed Certification with Respect to Citation of Data form to your office, and send the necessary data compensation offers to companies listed on the enclosed data matrix, once we obtain confirmation from your office that the enclosed data matrix is acceptable and that EPA has decided to approve the enclosed application. (See enclosed copy of April 11, 2002 letter).

Your letter of April 25, 2002, is unclear as to whether the Agency has reached a decision on approval of the application for registration. Please confirm in writing that your letter of April 25, 2002, was confirmation that the April 11, 2002 application has been determined to be acceptable and that the Agency has decided to approve the application for registration. Once we receive that confirmation, the appropriate materials will be submitted to the Agency. Until that confirmation is received, however, the applicant is not required to submit the materials requested in your letter and the Agency may not delay review of the application.

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Over One Hundred and Fifty Years of Combined Experience Assisting Chemical, Pesticide, Bio-Chemical and Life Science Companies on a Wide Range of Issues, Including Regulatory Strategies, Registration, Data Support and Compensation, Quality Assurance, Study Design and Scientific Matters.

Internal deliberative information





George LaRocca May 8, 2002, page 2

I look forward to your response. Please do not hesitate to contact me if you have any questions.

Regards,

Klipbert are Grown

Elizabeth Anne Brown

Enclosures:

1. EPA letter of April 25, 2002 (George LaRocca)

2. ChemReg International, LLC letter of April 11, 2002, on behalf of United Phosphorus

cc: United Phosphorus, Inc.
James Wright, Esq., Wright & Sielaty P.C.



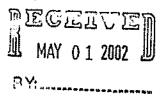
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

APR 2 5 2002

OFFICE OF PREVENTION, PESTICIDES ANO TOXIC SUBSTANCES

United Phosphorus, Inc. c/o Ms. Elizabeth A. Brown, Ph.D. ChemReg International, LLC 1990 Old Bridge Road, Suite 201 Lake Ridge, VA 22192-2383



Dear Ms. Brown:

SUBJECT: Applica

Application for Registration

Bifenthrin Technical Insecticide/Miticide

EPA File Symbol: 70506-RI

Your Submission Dated April 11, 2002

The application referred to above has been determined pursuant to 40 CFR §152.104, not to be sufficiently complete to process; therefore, the application is considered deficient. Labeling, data and/or other information as specified below must be submitted before the processing of the application can be completed. If such deficiencies cannot be corrected within 75 days, you must notify the Agency within those 75 days of the date you expect to complete the application. If, after 75 days you do not respond, or you subsequently fail to complete the application within the time scheduled for completion, the agency will terminate any action on the application, and will treat the application as if it has been withdrawn by the applicant. Any subsequent submission relating to the application must be submitted as a new application.

1. An application is considered incomplete if any pertinent item specified in §152.50 has not been submitted. Pursuant to §152.50(f) an applicant must submit materials to demonstrate that he has complied with FIFRA sec. 3(c)(1)(D) and subpart E of part 152 (Procedures to Ensure Protection of Data Submitters' Rights). Therefore, you must submit a completed Certification with Respect to Citation of Data (EPA Form 8570-34) indicating the Method of Data Support you are using. You must also submit a list of companies sent offers of compensation for data you are citing in support of this application.

If you have any questions regarding this action, please contact Susan Stanton of my team at (703) 305-5218.

Sincerely yours,

George T. LaRocca

Stanton, for Product Manager (13)

Insecticide Branch

Registration Division (7505C)





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E-MAIL: WEB SITES: brown@chemreg.com

Web Sites: www.chemreg.com

www.pesticide.net

ELIZABETH A. BROWN, Ph.D.

April 8, 2002

Re:

Document Processing Desk (APPL)
U.S. Environmental Protection Agency (7505C)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202-4501

Attn: George LaRocca (PM 13)

Application for Registration of "Me-Too" Bifentrhin Technical Insecticide/Miticide

On behalf of our client, United Phosphorus, Inc. (UPI), we are submitting an application for a "me-too" registration of Bifenthrin Technical Insecticide/Miticide (EPA Product Code 128825). This product is substantially similar to the already registered EPA Reg No. 279-3055.

Enclosed please find:
Transmittal bibliography
Three (3) copies of each submitted study
Application form 8570-1
Five (5) copies of the proposed label
Data matrix forms for EPA and public use (Form 8570-35)

Please note that we are relying upon the selective cite-all method to satisfy data requirements that have not been satisfied by data submitted by UPI.

As expressly permitted under 40 CFR § 152.84 and various Federal Register notices, UPI will submit compensation offers to companies listed on EPA's Data Submitters List as of this date after you have determined that the application is acceptable and ready for approval. As stated by EPA in the Federal Register:

Before the Agency will approve this applicant, the applicant must certify that he has obtained the authorization of, or made appropriate offers to pay to, each person on the Data Submitters List. . . . As in the past, the applicant will be permitted to submit his

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certification and general offer to pay at any time before registration is approved. The Agency will not delay the review of the application pending receipt of these statements, but will not approve the application until they are received and determined to be in compliance.

49 Fed. Reg. 30884 (Aug. 1, 1984), Final Rule: Pesticide Programs; Pesticide Registration and Classification Procedures; Application Procedures To Ensure Protection of Data Submitters' Rights.

As such, we will submit a completed Certification with Respect to Citation of Data form to your office, and send the necessary data compensation offers to companies listed on the enclosed data matrix, once we obtain confirmation from your office that the enclosed data matrix is acceptable and that EPA has decided to approve the enclosed application.

UPI's technical grade bifenthrin is of a higher purity that that of the substantially similar EPA Reg. No. 279-3055. However, the enclosed studies identify that the acute oral and dermal toxicity are comparable to that of the registered product. Since it is known and well-documented for pyrethroids that the isomer ratio is of greater importance than slight differences in purity and since UPI's product has a comparable isomeric ratio to that of the registered product and does not contain impurities of toxicological concern, the UPI product should be considered as comparable to the already registered product.

With respect to physical/chemical characteristics, the data generated using the Pure Active Ingredient and already on file at the Agency is applicable regardless of the purity of the technical grade material. These data are OPPTS 830.7050 (UV/Visible Absorption), OPPTS 830.7220 (Melting Point), OPPTS 830.7950 (Vapor pressure), OPPTS 830.7370 (Dissociation Constant), OPPTS 830.7550 (Octanol/water partition coefficient). Other characteristics, such as solubility, are not appreciably affected by the minor differences in the purity of the technical material, which is insoluble in water. Inasmuchas the material is solid, OPPTS 830.7220 (boiling point) is not applicable.

Based on both 40 CFR 158.190(a) and OPPTS 830.1000, we believe that the following data requirements are <u>not pertinent</u> for the registration of Bifenthrin Technical Insecticide/Miticide:

- 1. one year storage stability study (OPPTS 830.6317)
- 2. corrosion characteristics (OPPTS 830.6320)
- oxidation/reduction (OPPTS 830.6314)
- 4. viscosity (OPPTS 830.7100)
- 5. flammability (OPPTS 830.6315)
- 6. explodability (OPPTS 830.6316)
- 7. miscibility (OPPTS 830.6319)
- 8. dielectric breakdown voltage (OPPTS 830.6321)



UPI is requesting a waiver from the requirements to assess the stability to metal and metal ions under OPPTS 830.6313, as the product is packaged, stored, and shipped in high density polyethylene and is not in contact with metals or metal ions. The submitted study meets the requirements for stability to normal and elevated temperatures under OPPTS 830.6313.

We trust that, with the enclosed documents, the Agency can expeditiously issue UPI's registration. Should you have any questions regarding the enclosed material, please do not hesitate to call.

Sincerely,

Eliphere are Brown

Elizabeth Anne Brown, Ph.D.

cc: UPI



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES ANO TOXIC SUBSTANCES

APR 25 2002

United Phosphorus, Inc. c/o Ms. Elizabeth A. Brown, Ph.D. ChemReg International, LLC 1990 Old Bridge Road, Suite 201 Lake Ridge, VA 22192-2383

Dear Ms. Brown:

SUBJECT: Application for Registration

Bifenthrin Technical Insecticide/Miticide

EPA File Symbol: 70506-RI

Your Submission Dated April 11, 2002

The application referred to above has been determined pursuant to 40 CFR §152.104, not to be sufficiently complete to process; therefore, the application is considered deficient. Labeling, data and/or other information as specified below must be submitted before the processing of the application can be completed. If such deficiencies cannot be corrected within 75 days, you must notify the Agency within those 75 days of the date you expect to complete the application. If, after 75 days you do not respond, or you subsequently fail to complete the application within the time scheduled for completion, the agency will terminate any action on the application, and will treat the application as if it has been withdrawn by the applicant. Any subsequent submission relating to the application must be submitted as a new application.

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If you have any questions regarding this action, please contact Susan Stanton of my team at (703) 305-5218.

Sincerely yours,

George T. LaRocca Product Manager (13) Insecticide Branch

Registration Division (7505C)

U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs

UNITED PHOSPHOROUS, INC. 1209 ORANGE STREET WILMINGTON, DE 19801

Report of Analysis for Compliance with PR Notice 86-5

Thank you for your transmittal of 04/11/02. Our staff has completed a preliminary analysis of the material. The results are provided as follows:

Your submittal was found to be in full compliance with the standards for submission of data contained in PR Notice 86-5. A copy of your bibliography is enclosed, annotated with Master Record ID's (MRIDs) assigned to each document submitted. Please use these numbers in all future references to these documents. Thank you for your cooperation. If you have any questions concerning this data submission, please raise them with the cognizant Product Manager, to whom the data have been released.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

4/15/2002

UNITED PHOSPHORUS, INC. 423 RIVERVIEW PLAZA TRENTON, NJ 08611 OFFICE OF PREVENTION PESTICIDES AND TOXIC SUBSTANCES

PRODUCT NAME: BIFENTHRIN TECHNICAL INSECTICIDE/MITICIDE

COMPANY NAME: UNITED PHOSPHORUS, INC.

OPP IDENTIFICATION NUMBER: 294229

EPA FILE SYMBOL: 70506-RI EPA RECEIPT DATE: 4/1 I/02

SUBJECT: RECEIPT OF APPLICATION FOR A NEW REGISTRATION

DEAR REGISTRANT:

The Office of Pesticides Programs has received your application for a new registration and it has passed an administrative screen for completeness.

Please note that this is only a notification of receipt of your application. This is only the first step in the application process, and does NOT constitute approval.

If you have any questions, please contact the Insecticide Branch at 703-305-7448.

Sincerely,

Front End Processing Staff

Patricia le Mosne

Information Services Branch

Information Resources & Services Division

TRANSMITTAL DOCUMENT

Submitter United Phosphorus, Inc

United Phosphorus, Inc. 740 Springdale Drive Suite 204 Exton, PA 19341 ChemReg International, LLC* 2239-H Tacketts Mill Drive Lake Ridge, VA 22192-3026

*ChemReg International is the authorized representative for United Phosphorus, Inc.

Regulatory action in support of which this package is submitted

New Product Registration ("Mc-Too")
(Bifenthrin Technical Insecticide/Miticide 70506-x)

Transmittal Date April 11, 2002

Submitted Studies

	MRID	
====		Administrative Materials
Document 1:	45654401	Brown, E.A. March 19, 2002. Bifenthrin Technical Insecucide. Product Identity, Composition, and Analysis (Group A). Compilation Report No. UPI-Bifentech-A. 219 pgs. Contains Confidential Business Information.
Document 2:	45654402	Joshi, C. Nov 12, 2001. Appearance (colour, physical state, and odor) of bifenthrin. JRF study number 3591. 13 pg.
Document 3:	45654403	Patel, A.H. Sept 5, 2001. Accelerated storage stability of bifenthrin. JRF study number 3220. 81 pg.
Document 4:	45654404	Tiwari, V.K. Feb. 9, 2002. Acute oral toxicity study of bifenthrin technical in rats. Jai Research Foundation. JRF Study No. 3415. 33 pages.
Document 5:	45654405	Tiwari, V.K. Feb 9, 2002. Acute dermal toxicity study of bifenthrin technical in rats. Jai Research Foundation. JRF Study No. 3416. 27 pages.

Company Official

Elizabet are Brown

Company Name:

ChemReg International, LLC., Authorized Representative for UPI

Company Contact:

Elizabeth Anne Brown

Phone Number:

703-492-7905



456544-00

1990 OLD BRIDGE ROAD, SUITE 201 Lake Ridge, Virginia 22192-2383

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703-492-0668

E-MAIL:

brown@chemreg.com WEB SITES: www.chemreg.com

www.pesticide.net

ELIZABETH A. BROWN, PH.D.

April 8, 2002

Fax:

Document Processing Desk (APPL) U.S. Environmental Protection Agency (7505C) U.S. Environmental Protection Agency Room 266A, Crystal Mall 2 1921 Jefferson Davis Highway Arlington, VA 22202-4501

70506-RI

Atm: George LaRocca (PM 13)

Application for Registration of "Me-Too" Bifentthin Technical Insecticide/Miticide Re:

On behalf of our client, United Phosphorus, Inc. (UPI), we are submitting an application for a "me-too" registration of Bifenthrin Technical Insecticide/Miticide (EPA Product Code 128825). This product is substantially similar to the already registered EPA Reg No. 279-3055.

Enclosed please find: Transmittal bibliography Three (3) copies of each submitted study Application form 8570-1 Five (5) copies of the proposed label Data matrix forms for EPA and public use (Form 8570-35)

Please note that we are relying upon the selective cite-all method to satisfy data requirements that have not been satisfied by data submitted by UPI.

As expressly permitted under 40 CFR § 152.84 and various Federal Register notices, UPI will submit compensation offers to companies listed on EPA's Data Submitters List as of this date after you have determined that the application is acceptable and ready for approval. As stated by EPA in the Federal Register:

Before the Agency will approve this applicant, the applicant must certify that he has obtained the authorization of, or made appropriate offers to pay to, each person on the Data Submitters List. . . . As in the past, the applicant will be permitted to submit his

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Based on both 40 CFR 158.190(a) and OPPTS 830.1000, we believe that the following data requirements are <u>not pertinent</u> for the registration of Bifenthrin Technical Insecticide/Miticide:

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UPI is requesting a waiver from the requirements to assess the stability to metal and metal ions under OPPTS 830.6313, as the product is packaged, stored, and shipped in high density polyethylene and is not in contact with metals or metal ions. The submitted study meets the requirements for stability to normal and elevated temperatures under OPPTS 830.6313.

We trust that, with the enclosed documents, the Agency can expeditiously issue UPI's registration. Should you have any questions regarding the enclosed material, please do not hesitate to call.

Sincerely,

Elizace and Brown

Elizabeth Anne Brown, Ph.D.

cc: UPI





1990 OLD BRIDGE ROAD, SUITE 201 LAKE RIDGE, VIRGINIA 22192-2383

DIRECT: 703-492-7905

MAIN: 703-492-0445

Fax: 703-492-0668

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WEB Stres: www.chemreg.com

www.pesticide.net

ELIZABETH A. BROWN, PH.D.

April 8, 2002

Document Processing Desk (APPL)
U.S. Environmental Protection Agency (7505C)
U.S. Environmental Protection Agency
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202-4501

Attn: George LaRocca (PM 13)

Re: Application for Registration of "Me-Too" Bifentrhin Technical Insecticide/Miticide

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- 8. dielectric breakdown voltage (OPPTS 830.6321)



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We trust that, with the enclosed documents, the Agency can expeditiously issue UPI's registration. Should you have any questions regarding the enclosed material, please do not hesitate to call.

Sincerely,

Elizacer and Brown

Elizabeth Anne Brown, Ph.D.

cc: UPI

TRANSMITTAL DOCUMENT

<u>Submitter</u> United Phosphorus, Inc

United Phosphorus, Inc. 740 Springdale Drive Suite 204 Exton, PA 19341

ChemReg International, LLC* 2239-H Tacketts Mill Drive Lake Ridge, VA 22192-3026

*ChemReg International is the authorized representative for United Phosphorus, Inc.

Regulatory action in support of which this package is submitted

New Product Registration ("Me-Too")
(Bifenthrin Technical Insecticide/Miticide 70506-x)

Transmittal Date
April 11, 2002

Submitted Studies

MR	[D
	Administrative Materials
Document 1:	Brown, E.A. March 19, 2002. Bifenthrin Technical Insecticide. Product Identity, Composition, and Analysis (Group A). Compilation Report No. UPI-Bifentech-A. 219 pgs. Contains Confidential Business Information.
Document 2:	Joshi, C. Nov 12, 2001. Appearance (colour, physical state, and odor) of bifenthrin. JRF study number 3591. 13 pg.
Document 3:	Patel, A.H. Sept 5, 2001. Accelerated storage stability of bifenthrin. JRF study number 3220. 81 pg.
Document 4:	Tiwari, V.K. Feb. 9, 2002. Acute oral toxicity study of bifenthrin technical in rats. Jai Research Foundation. JRF Study No. 3415. 33 pages.
Document 5:	Tiwari, V.K. Feb 9, 2002. Acute dermal toxicity study of bifenthrin technical in rats. Jai Research Foundation. JRF Study No. 3416. 27 pages.

Company Official

Elizance are Brown

Company Name:

ChemReg International, LLC., Authorized Representative for UPI

Company Contact:

Elizabeth Anne Brown

Phone Number:

703-492-7905

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read instructions on reverse before completing form	Form Approved, OMB No. 2070-0060, Approval exp

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SEPA Environmental P	States rotection Ag		m Approved, OMB 1 X Registration Amendme Other	on [Approval expires 5-31-98 OPP Idontitier Number 294229
		sticido - Sectic	n I	·	
1. Company/Product Number 70508- AL		2. EPA Product M George LaRocca		3. Propose	ed Classification
4. Company/Product (Name)		PM#		X None	Restricted
Bilenthrin Technical Insecticide/Miticide 5. Name and Address of Applicant (Include ZIP Code) United Phosphorus, Inc. 423 Riverview Plaza Trenion, NJ 08611	-	8. Expedited Rev (b)(i), my product is to: EPA Reg No.	s similar or identica 279-3055	al in compos	gillon and tabelling
Check If this is a new address		Product Name	Blienthrin Techni	ical insectici	lde/Miticide
	Casil	on - II			
Amendment - Explain below			d labels in respons	e to	
		Agency lett	•		
Resubmission to response to Agency letter dated		X "Me Too" A			
Notification - Explain below		X Other - Exp	plain below		
Explanation: Use additional page(s) if necessary. (For S	Pastion ! and Can	dae 11 V			
	Secti	on Ili	·	***************************************	
Material This Product Will be Packaged in: Child-Resistant Packaging Unit Packaging	l Wa	ler Soluble Packagin	V7	2. Type o	f Container
Yes Yes	١	Yos	.a	Meta	
X No X No] x	No		Plas Glas	
*Certification must "Yes"	No. per 11*1	/es*	No. per	Pape	-
be submitted Unit Packaging wgt.	conteiner Peo	Skage wgt	container	X Othe mole HDP	er (Specify) high scular HDPE bags in E druma
	4. Size(s) Retail 25 kg	Container	\∑ o	ation of labe in Label In Label acc	ompanying product
6. Manner in Which Label is Affixed to Product	Lithograph Paper glue	d	Other		
	Stenciled Secti	on IV	····		
I. Contact Person (Complete items directly below for iden			d, if necessary, to p	rocess this	application.)
Name Elizabeth Anne Brown	Title ChemReg la	niernational, LLC representative	Telepho 703-49	one No. (Inc	lude Area Code)
I certify that the statements I have made on this form and at I acknowledge that any knowingly false or misleading states both under applicable law	fication l attachments the sent may be punk	reto are true, accurat	te and complete. risonment or	8. (Date Application Received
2. Signature Ylizatuck Asce Brown		niernational, LLC ep/eseniative			(Stamped)
4. Typed Name Elizabeth Anne Brown	5. Dale 4-11-2002			****	•

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete.

White - EPA File Copy (Original) Yellow - Applicant Copy

United States Environmental Protection Agency Washington, DC 20460 Application for Pesticide - Section I 1. Company/Product Number 4. Company/Product (Name) 5. Name and Address of Applicant finclude ZIP Code) Check if this is a new address Product Name Check if this is a new address Product Name Section - II Amendment - Explain below. Resubmission in response to Agency letter dated Product Manager Final printed labels in response to Agency letter dated "Me Too' Application.	14229 fication Restricts	
Application for Pesticide - Section I 1. Company/Product Number 2. EPA Product Manager 3. Proposed Classi 3. Proposed Classi 4. Company/Product (Name) PM#	Restricts	
. Company/Product Number . Company/Product (Name) . Name and Address of Applicant (Include ZIP Code) . Name and Address of Applicant (Include ZIP Code) . Name and Address of Applicant (Include ZIP Code) . Check if this is a new address . Product Name . Section - II . Amendment - Explain below. . Product Name . Final printed labels in response to Agency letter dated	Restricts	
Name and Address of Applicant (Include ZIP Code) 6. Expedited Review. In accordance with FIFRA Section of the composition of t	ion 3(c)(3)	
Name and Address of Applicant (Include ZIP Code) 6. Expedited Review. In accordance with FIFRA Section are identical in composition are to: EPA Reg. No. Check if this is a new address Product Name Section - II Amendment - Explain below. Final printed labels in response to Agency letter deted	ion 3(c)(3)	
(b)(i), my product is similar or identical in composition ar to: EPA Reg. No. Product Name Section - II Amendment - Explain below. Final printed labels in response to Agency letter deted		
Check if this is a new address Product Name Section - II Amendment - Explain below. Final printed labels in response to Agency letter deted	nd labeling	
Check if this is a new address Product Name Section - II Amendment - Explain below. Final printed labels in response to Agency letter deted	*	
Section - II Amendment - Explain below. Final printed labels in response to Agency letter deted	· · · · · · · · · · · · · · · · · · ·	
Section - II Amendment - Explain below. Final printed labels in response to Agency letter deted		
Amendment - Explain below. Final printed labels in response to Agency letter deted		
Agency letter deted		
Notification - Explain below.	4	
(planation: Use additional page(s) if necessary, (For section I and Section II.)		
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and the second of the second o	Lander Co	
Section \ III	st State of the state Material This Product Will Be Packaged In:	<u> </u>
hild-Resistant Packaging Unit Packaging Water Soluble Packaging 2. Type of Container		
Yes Yes Yes Metal	1 1 2 1 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1	
Plastic vitra vitr	. 25.	
No No Gless		
If "Yes" No. per If "Yes" No. per Unit Packaging wgt. /container Package wgt container Other (Specify)		
Abmitted John Miles		
Location of Net Contents Information / 4. Size(e) Retail Container %, Location of Label Directions		
Label Container On Labeling accompanying prod	ittet	
The Control of the Co		
Manner in Which Label is Affixed to Product Paper gived Stendied	_	
AND THE RESIDENCE OF A STATE OF A	·····	
	75 \$ 9 12 34 3	
Contact Point [Complete Items directly below for identification of individual to be contacted, if necessary, to process this application.]	 	
arne Telephone No. (Include	Area Code	
Certification 8. Data App	lication	
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. Received	1 − 1 € _g . 	
	npedl	
both under applicable law. Signature: 3. Title		
both under applicable law. Signature 3. Title		
both under explicable law. Signature 3. Title		
both under applicable law. Signature: 3. Title		

PAPERWORK REDUCTION ACT NOTICE and INSTRUCTIONS

PAPERWORK REDUCTION ACT NOTICE: Public reporting burden for this collection of information is estimated to average 0.85 hour por response, including time for reviewing instructions, asserbing existing date sources, gethering and maintaining the date needed, and completing and reviewing the collection of information. Send commissing regarding the burden ostimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Chief, information Policy Bronch, (2136), U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460.

INSTRUCTIONS: This form is to be used for all applications for new registration, and use reregistration, amendment, resubmission, to applications for new registration, and the form, the following material must accompany the application:

- 1. Certification with Respect to Citation of Data (EPA Form 8570-29). [If not exempted by 40 CFR 152.81 (b) (4)];
- 2. Confidential Statement of Formula (EPA Form 8570-4):
- 3. Formulator's Exemption Statement (EPA Form 8570-27);
- 4. Five copies of draft labeling;
- 5. Three copies of any data submitted;
- 5. Authorization letter where applicable;
- 7. Matrices where applicable.

Submission of Labeling - Labeling should first be submitted in the form of draft labels with all applications for new registration. Such draft labels may be in the form of typed label text on 8.5 x 11 inch paper for submission or a mockup of the proposed label. If prepared for mockup, it should be constructed in a way se to facilitate storage in an 8.5 x 11 inch file. Mockup labels significantly smaller than 8.5 x 11 inches should be mounted on 8.5 x 11 inch paper for submission.

Submission of Data - Dota submitted in support of this application must be submitted in accordance with PR Notice 86-5.

SPECIFIC INSTRUCTIONS: Please raed the instructions listed below before completing this application. First determine the type of registration action, listed in Block A, for which you are submitting this application. For applications submitted in connection with New Registration actions, Sections I, III, and IV must be completed by the applicant. For applications submitted in connection with amended reregistration actions, resubmissions, notifications, reregistrations, etc., Sections I, II, and IV must be completed by the applicant.

Block A - Check the appropriate action for which you are submitting this form.

SECTION | - This section must be completed, as applicable, for all registration actions.

- Company/Product Number Insert your Company Number, if one has been assigned by EPA. This number may have been assigned to you as a basic registrent, a distributor, or as an establishment. If your product is registered, insert the Product Number.
- 2. EPA Product Manager If known, fill in the name and PM number of the EPA Product Manager.
- 3. Proposed Classification Specify the proposed classification of this product.
- 4. Product Name Enter the complete product name of this pecticide as it will appear on the isbel. The name must be specific to this product only.

 Duplication of names is not permitted among products of the same company. Do not include any brand name or company line designations.
- 5. Name and Address of Applicant The name of the firm or passon and address shown in your application is the parson or firm to whom the registration will be issued. If you are eating in behalf of another party, you must submit authorization from that party to act for them in registration matters. An applicant not residing in the United States must have an authorized agent residing in the United States to act for them in all registration matters. The name and complete mailing address of such an agent must accompany this application.
- 5. Expedited Review FIFRA section 3 (d) 3 (B) provides for expedited review of applications for registration, or amendments to existing registration that are similar or identical to other posticide products that are currently registered with the EPA. In order for your application to be eligible for expedited review, you must provide us with the EPA Registration Number and product name of the product you believe is similar to or identical to your product. The product must be similar or identical in both formulation and labeled uses.

SECTION II - This section must be completed for all applications submitted to amend the registration only of a currently registered product (Amendment), for a resubmission in response to an Agency letter, for notifications to the Agency, for the submission of final printed labeling, for reregistration and for any other action that pertains to a specific EPA-registered product. This section is not to be used for a new application for registration.

1. Subject of submission - Check the applicable block and provide the Agency letter date if appropriate. Provide a briof explanation of the purposs(s) for the submission, such as "the addition of a site, past or crop (specify)"; "amend the Confidential Statement of Formula by..."; "reregistration submission"; "general label revision of use directions." Attach a separate page if additional space is needed.

SECTION III (Packaging and Container Information) - This Section must be completed for all applications submitted in connection with new registration or applicable amendments.

- Type of Packaging. Check the appropriate block if your product will be packaged in the indicated packaging types.
 Indicate the size of the individual package and number per retail container.
- 2. Type of Retail Container Indicate type of container in which product will be marketed.
- 3. Legation of Nat Contents Indicate the location of the net contents information for your product.
- 4. Size(s) of Retail Container Specify the net contents of all retail containers for your product.
- 5. Location of Use Directions Indicate the location of the use directions for your product.
- 6. Manner in which tabel is affixed to product indicated the method product label is attached to retail container.

SECTION IV (Contact Point) - This Section must be completed for all applications for Registration ections, I.e., new products registration, resubmission, "me-too," reregistration, etc.

- 1-5. Self-explanatory.
- 6. EPA Use Only.

Please read instructions on reverse before completing form,	Form Appr	oyed, OMB No. 2070	+0060 B
SEPA Environmental Protection Washington, DC 20480	Agency	Registration Amendme Other	OPP Identifier Number
Application	for Pesticide - Sec	tion I	
1. Company/Product Number	2. EPA Product Man	sger	3. Proposed Classification
4. Company/Product (Name)	PMF or 3		None Restricted
5. Name and Address of Applicant (Include ZIP Gode) Check if this is a new address	6. Expedited Rev (b)(i), my product to: EPA Reg. No Product Name	s similar or identica	with FIFRA Section 3(c)(3) I in composition and labeling
	Section - II	/	
Amendment - Explain below. Resubmission in response to Agency letter dated Notification - Explain below.	Agency let	Application.	·
Meterial This Product Will be Peckaged in:	Section III		
	Weter Sciuble Packaging	2. Type of Co	
Yes Yes No. per	Yes No her Peckage wgt contains	A P	fictal festic sless sper Other (Specify)
3. Location of Net Contents Information 4. Size(o) Retail (Container	6, Location of Label I On Label On Labeling	Directions secompanying product
6. Manner in Which Label is Affixed to Product Lithograph Paper give Stenciled	h Othe		
	Section - IV		V
1. Contact Point (Complete items directly below for identification of	f individual to be contacted,	if necessary, to proce	es this application.)
Name of the state		Te	lephone No. (Include Area Code)
Certification I certify that the statements I have made on this form and all I asknowledge that any knowingly false or misleading statements both under applicable law.	attachments thereto ere tru	e, scourate and complete or imprisonment or	6. Date Application Received (Stamped)
2. Signature 3. 1	Title		
4. Týped Name 5. C	Dato		~~
PA Form 8570-1 (Rev. 8-94) Previous editions ere obsolste.		ite - EPA File Copy to	riginal) Yellow - Applicant Cop

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- 3. Location of Net Contents Indicate the location of the net contents information for your product.
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- 1-5. Self-explanatory.
- 6. EPA Use Only.



UNITED STATES ENVIRONMENTAL PECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

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Date: March 20, 20002 EPA Reg No./ File Symbol 70506 Applicant's/Registrant's Name and Address: United Phosphorus, Inc. 423 Riverview Plaza Trenton, NJ 08611 Page 1 of 3 Product: Bifenthrin Technical Insecticide/Miticide

Ingredient: Bifenthrin (PC 128825)

	Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
1	61-1 (830.1550)	Chemical identity		United Phosphorus Inc (UPI)	Own	
1	61-2a (830.1620)	Starting materials and manufacturing process		UPI	Own	
	61-2b (830.1670)	Formation of impurities		UPI	Own	
1	62-1 (830.1700)	Preliminary analysis		UPI	Own	
1	62-2 (830.1750)	Certification of limits	· · · · · · · · · · · · · · · · · · ·	UPI	Own	
ı	62-3 (830.1800)	Analytical method		UPI ·	Own	
1	63-2 (830.6302)	Color	1	UPI	Own	
/	63-3 (830.6303)	Physical state		UPI	Own	· · · · · · · · · · · · · · · · · · ·
_	63-4 (830.6304)	Odor	1	UPI	Own	
	None (830.7050)	UV/Visible Absorption	CITE ALL	FMC Corp Agricultural Products Group (FMC); The Scotts Co (Scotts); The Andersons Lawn Fertilizer Division, Inc. (Andersons)	pay	
ľ	63-5 (830.7220)	Melting point	CITE ALL	FMC, Scotts, Andersons	Pay	
ĺ	63-7 (830.7300)	Density	CITE ALL	FMC, Scotts, Andersons		
	63-8 (830.7840)	Solubility	CITE ALL	FMC, Scotts, Andersons	pay	
	63-9 (830,7950)	Vapor pressure	CITE ALL	FMC, Scotts, Andersons	Pay	
	63-10 (830.7370)	Dissociation constant	CITE ALL	FMC, Scotts, Andersons	Pay	
١	63-11 (830.7550)	Octanol/water partition	CITE ALL	FMC, Scotts, Andersons	Pay	
١	63-12 (830,7000)	pH		UPI	own	
i	6 3-13 (830.6313)	Stability	• 4	UPI	own	
\)71-tb (850.2100)	Avian acute oral toxicity	CITE ALL	FMC, Scotts, Andersons	Pay	
Q	171-2 (850.2200)	Avian dietary toxicity	• CITE ALL	FMC, Scotts, Andersons	Pay	· · · · · · · · · · · · · · · · · · ·

Signature	Name and Title	Date
Heizarch ance Brown	Elizabeth Anne Brown, ChemReg International, LLC Registration Agent	4/11/2002
	registration regent	<u> </u>

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Agency Internal Use Copy



Date: March 20, 20002

United Phosphorus, Inc. 423 Riverview Plaza

82-7 (none)

83-1a (870,4100)

83-1b (870,4100)

83-2a (870,4200)

83-2b (870.4200)

83-3a (870,3700)

Applicant's/Registrant's Name and Address:

UNITED STATES ENVIRONMENTAL POSTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

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DATA MATRIX Page 2 of 3 EPA Reg No./ File Symbol Note: Recordly Submitted inhalds 70506-Product: Bifenthrin Technical Insecticide/Miticide and dom. sens studies for FMC's

FMC, Scotts, Andersons

FMC, Scotts, Andersons

FMC, Scotts, Andersons

FMC, Scotts, Andersons

FMC, Scotts, Andersons

FMC, Scotts, Andersons

FMC, Scotts, Andersons

Trenton, NJ 08611 tack on under Ingredient: Bifenthrin (PC 128825) review. Pro George Tont has Guideline Reference Number Guideline Study Name MRID Number Submitter Status Note 71-4 (850.2300) CITE ALL Avian reproduction FMC, Scotts, Andersons Pay 72-1 (850.1075) Fish acute toxicity CITE ALL FMC, Scotts, Andersons Pay 72-2 (850,1010) Invertebrate toxicity CITE ALL Pay FMC, Scotts, Andersons 72-3 (850.1025 - 1055) Estuarine/marine toxicity CITE ALL FMC, Scotts, Andersons Pay 72-4 (850.1300) Invertebrate Chronic toxicity CITE ALL FMC. Scotts. Andersons Pav 72-4 (850.1350) CITE ALL Invertebrate chronic toxicity FMC, Scotts, Andersons Pay 72-5 (850,1400) Pay Fish life early life cycle CITE ALL FMC, Scotts, Andersons 141-1 (850.3020) CITE ALL Honeybee acute contact toxicity FMC, Scotts, Andersons pay 81-1 (870.1100) Acute oral- rat UPI Own 81-2 (870.1200) Acute dermal-rabbit/rat UPI Own 81-3 (870,1300) Acute inhalation - rat 00155286 FMC Old 81-4 (870.2400) Primary eye irritation - rabbit 00132522 FMC Old 81-5 (870,2500) Primary dermal irritation - rabbit 00132521 1 FMC Old 81-6 (870.2600) Dermal sensitization 00132523 FMC Old 81-8 (870.6200) Acute neurotoxicity CITE ALL FMC, Scotts, Andersons Pav 82-1 (870,3100) CITE ALL 90-Day feeding FMC, Scotts, Andersons Day 82-2 (870.3200) 21-Day dermal toxicity - rats

Signature	Name and Title	Date
Very March	Elizabeth Anne Brown, ChemReg International, LLC	4/11/2002
Plijasver Ance Grown	Registration Agent	

CITE ALL

CITE ALL

CITE-ALL

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: CITE-ALL

: CITE-ALL

Teratogenicity - rat

Subchronic neurotoxicity - rat

Chronic feeding toxicity - rodent

Chronic feeding toxicity - dog

Oncogenicity - rat

Oncogenicity - mouse

Pay

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DATA MATRIX Date: March 20, 20002 EPA Reg No./ File Symbol 70506 Applicant's/Registrant's Name and Address: United Phosphorus, Inc. 423 Riverview Plaza Trenton, NJ 08611 Ingredient: Bifenthrin (PC 128825)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
83-36 (870.3700)	Teratogenicity – rabbit	CITE-ALL	FMC, Scotts, Andersons	Pay	
84-2	Mutagenicity studies	CITE-ALL	FMC, Scotts, Andersons	Pay	
85-1 (870.7485)	General metabolism	CITE-ALL	FMC, Scotts, Andersons	Pay	
85-2	Dermal absorption	CITE-ALL	FMC, Scotts, Andersons	Pay	
161-1	Hydrolysis	CITE ALL	FMC, Scotts, Andersons	Pay	
161-2	Photodegradation in water	CITE ALL	FMC, Scotts, Andersons	Pay	
162-1	Aerobic soil metabolism	CITE-ALL	FMC, Scotts, Andersons	Pay	
163-1	Adsorption/desorption	CITE ALL	MC, Scotts, Andersons	Pay	
164-I (875.2200)	Field soil dissipation	CITE-ALL	FMC, Scotts, Andersons	Pay	
165-4	Bioaccumulation in fish	CITE-ALL	FMC, Scotts, Andersons	pay	
Special studies	Other	CITE ALL	Pyrethroid Working Group	pay	
132-1 (857.2100)	Foliar residue dissipation	CITE ALL	FMC, Scotts, Andersons	Pay	
133-3 (875.2400, 2500)	Dermal exposure	CITE ALL	UPI is a member of the Ag Re-entry task force; UPI is a member of the Outdoor Residential Task Force	Own	
133-4 (857.2500)	Inhalation exposure	CITE ALL	UPI is a member of the Ag Re-entry task force; UPI is a member of the Outdoor Residential Task Force	Own	
201-1, 202-1 (840.1100, 835.4200)	Spray drift and droplet size	CITE ALL	UPI is a member of the Spray Drift Task Force	Own	

Signature	Name and Title	Date
Maria de Maria	Elizabeth Anne Brown, ChemReg International, LLC	4/11/2002
Elizabeth Anne Brown	Registration Agent	

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DATA MATRIX Date: March 20, 20002 EPA Reg No./ File Symbol Page 3 of 3 70506-Applicant's/Registrant's Name and Address: Product: Bifenthrin Technical Insecticide/Miticide United Phosphorus, Inc. 423 Riverview Plaza Trenton, NJ 08611 Ingredient: Bifenthrin (PC 128825)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
		(FMC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	Pay	
SPECIAL CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A CONTRACTOR AND A			FMC, Scotts, Andersons	Pay	
ANT DE LES LIVES DE CONTRA LE CONTRA DE LA CONTRA DE LA CONTRA DE LA CONTRA DE LA CONTRA DE LA CONTRA DE LA CO	DESCRIPTION AND A CONTRACTOR OF A CONTRACTOR OT A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR OF A CONTRACTOR O		FMC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	Pay	<u> </u>
			MC, Scotts, Andersons	Pay	
CONTRACTOR CONTRACTOR CONTRACTOR AND ACTION AND A PROPERTY OF A CONTRACTOR AND ACTION AND ACTION ASSESSMENT OF A CONTRACTOR AND ACTION ASSESSMENT ASSESSMENT AND ACTION ASSESSMENT ASSESSME			FMC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	pay	
			Pyrethroid Working Group	pay	
			FMC, Scotts, Andersons	Pay	
			UPI is a member of the Ag Re-entry task	Own	
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			UPI is a member of the Ag Re-entry task	Own	
			force; UPI is a member of the Outdoor		
			Residential Task Force		
			UPI is a member of the Spray Drift Task	Own	
	,		Force	.]	

Signature	
Higasier Arce	Brown

Name and Title Elizabeth Anne Brown, ChemReg International, LLC Registration Agent

Date 4/11/2002



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WASHINGTON, D.C. 20460

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			FMC, Scotts, Andersons	Pay	
			FMC, Scotts, Andersons	Pay	
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			FMC, Scotts, Andersons	Pay	
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Date
, ChemReg International, LLC 4/11/2002

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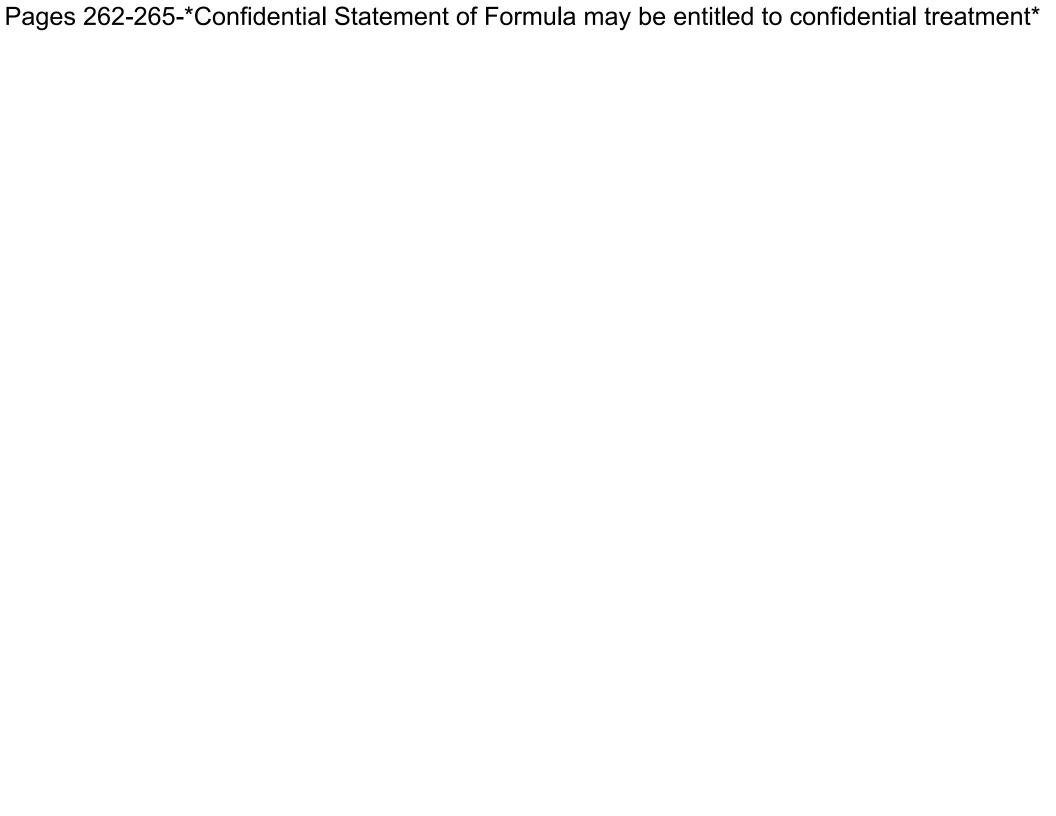
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DATA MATRIX				
Date: March 20, 20002	EPA Reg No./ File Symbol 70506-	Page 3 of 3		
Applicant's/Registrant's Name and Address: United Phosphorus, Inc. 423 Riverview Plaza Trenton, NJ 08611	Product: Bifenthrin Technical Insecticide/Miti	icide		
Ingredient: Bifenthrin (PC 128825)				

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
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			FMC, Scotts, Andersons	Pay	
			UPI is a member of the Ag Re-entry task force; UPI is a member of the Outdoor	Own	
			Residential Task Force		
			UPI is a member of the Ag Re-entry task force; UPI is a member of the Outdoor Residential Task Force	Own	
			UPI is a member of the Spray Drift Task Force	Own	

Signature		
Ylizanie	<i>Care</i>	Grown

Name and Title
Elizabeth Anne Brown, ChemReg International, LLC
Registration Agent

Date 4/11/2002



Commercial/financial information may be entitled to confidential treatment



United Phosphorus, Inc.

423 Riverview Plaza Trenton, NJ 08611 (609) 392-8200 x 18 (phone) (609) 392-0808 (fax) Rebecca A. Clemmer Regulatory Affairs Manager

November 2, 2004

Mr. George LaRocca (PM 13)
Document Processing Desk (APPL)
Office of Pesticide Programs (7504C)
U.S. Environmental Protections Agency
1801 Bell Street
Arlington, VA 22202

Re:

Bifenthrin Technical Insecticide, EPA Reg. No. 70506-18

Submission of Production Information

Dear Mr. LaRocca:

In its Notice of Pesticide Registration, USEPA required United Phosphorus to submit production information for this product for the 2004 fiscal year. This product is manufactured by United Phosphorus in India, and we hereby report that between the dates of Sept. 30, 2003 and October 1, 2004, we have imported for the control of Bifenthrin Technical.

No data are being submitted with this application and no fees are applicable under the requirements of PRIA.

Please contact me if you have any questions.

Kelsecca a. Clemmer

Very truly yours,

Rebecca A. Clemmer

rclemmer@upi-usa.com